COMMONWEALTH OF MASSACHUSETTS DEPARTMENT OF TELECOMMUNICATIONS AND ENERGY

RESPONSE OF BAY STATE GAS COMPANY TO THE FIRST SET OF INFORMATION REQUESTS FROM UWUA LOCAL 273 D. T. E. 05-27

Date: July 9, 2005

Responsible: Danny G. Cote, General Manager

- UWUA-1-13 (a) Please provide a schedule tabulating Bay State's operations and maintenance expenditures from January 1, 1998 to present. Separate out, if available, the O & M expenditures for service lines versus main repairs. To the extent any portion of these expenses are based on billings or allocations from Bay State or NiSource affiliates, please identify those amounts and explain the basis for making any such allocations.
 - (b) Please provide a schedule tabulating Bay State's capital expenditures from January 1, 1998 to present. Separate out the capital expenditures for service line replacements or extensions and main replacements or extensions. To the extent any portion of these expenses are based on billings or allocations from Bay State or NiSource affiliates, please identify those amounts and explain the basis for making any such allocations.
 - (c) Please provide a general description of how Bay State decides to classify expenditures as O & M versus capital expenditures.

Response:

- (A) Please see Attachments UWUA-1-13 (a1), UWUA-1-13 (a2), UWUA-1-13 (a3).
- (B) Please see Attachment UWUA-1-13 (b). None of these expenses are based on billings or allocations from Bay State or NiSource affiliates.
- (C) The Company's current capitalization threshold for the purchase of General Plant equipment is \$1,000.00 per individual unit. Therefore, any expenditure for an individual unit totaling less than \$1,000, is charged to the appropriate operating expense.

General Plant consists of the following type of equipment: office furniture and equipment (i.e., desk, chair, cabinet, table, etc.), tools and equipment (i.e., paving breaker, leak detector, boring machine, pipe locator, etc.), computers and related equipment (i.e., personal computer, printer, server, monitor, etc.), and miscellaneous equipment (i.e., breathing equipment, ice machine, refrigerator, television, etc.).

The basis for determining whether a purchase of General Plant equipment is to be expensed or capitalized is generally determined by the individual, or unit price of the item, and not the invoice total. For example: the purchase of 30 chairs at a unit price of \$300.00 each is expensed, even though the invoice totals \$9,000.00.

Asset Accounting will reverse any invoice that is improperly classified as a capital expenditure, and credit the appropriate O&M account.

Bay State Gas Company D.T.E. 05-27 Attachment UWUA-1-13 (a 1) Page 1 of 1

Gas Operation and Maintenance Expenses -- Per pages 45,46,47 Annual DTE reports

	1998	1999	2000	2001	2002	2003	2004
Total Production Expenses	200,721,440	172,869,001	228,314,706	264,816,504	192,584,560	270,384,719	326,855,062
Transmission and Distribution	22,038,994	23,012,005	22,266,412	20,888,457	20,403,973	21,682,879	23,812,600
Customer Accounts	11,278,582	10,677,945	12,433,330	9,909,792	15,423,193	19,099,524	17,251,657
Sales Expenses	2,802,452	2,205,411	2,118,170	1,125,795	2,052,816	303,584	431,788
Admin and General	49,052,016	38,200,754	40,923,352	43,245,856	55,456,048	53,900,933	54,519,888
Total Gas Operation and Maintenance Expenses	285,893,484	246,965,116	306,055,971	339,986,404	285,920,590	365,371,639	422,870,995
	285,893,484	246,965,116	306,055,971	339,986,404	285,920,590	365,371,639	422,870,995
	0	0	0	0	0	0	0
Less Production Expenses	(200,721,440)	(172,869,001)	(228,314,706)	(264,816,504)	(192,584,560)	(270,384,719)	(326,855,062)
Net Regular O&M	85,172,044	74,096,114	77,741,265	75,169,900	93,336,030	94,986,920	96,015,933

BAY STATE MASSACHUSETTS

Location	Description	Volumes	Hours	Labor	Purchases	Material	Other	Total
Year 1998	8 Leak Repair Service	369	(1,937.0)	128,519	34,130	26,159	-	188,808
		Percent		68%	18%	14%	0%	100%
		Per Unit	(5.2)	\$348.29	\$92.49	\$70.89	\$0.00	\$511.67
	Labor Ra	te (\$66.35)						
Year 1999	9 Leak Repair Service	302	6,668.0	182,367	48,432	37,087	-	267,886
		Percent		68%	18%	14%	0%	100%
		Per Unit	22.1	\$603.86	\$160.37	\$122.80	\$0.00	\$887.04
	Labor Ra	te \$27.35						
Year 2000	0 Leak Repair Service	247	3,848.0	60,877	23,564	21,534	-	105,975
		Percent		57%	22%	20%	0%	100%
		Per Unit	15.6	\$246.47	\$95.40	\$87.18	\$0.00	\$429.05
	Labor Ra	te \$15.82						
Year 200	1 Leak Repair Service	147	1,121.0	33,147	11,984	18,434	-	63,565
		Percent		52%	19%	29%	0%	100%
		Per Unit	7.6	\$225.49	\$81.52	\$125.40	\$0.00	\$432.41
	Labor Ra	te \$29.57						
Year 2002	2 Leak Repair Service	244	2,601.0	74,708	11,663	30,216	(3,176)	113,411
		Percent		66%	10%	27%	-3%	100%
		Per Unit	10.7	\$306.18	\$47.80	\$123.84	(\$13.02)	\$464.80
	Labor Ra	te \$28.72						
Year 2003	3 Leak Repair Service	250	4,990.0	159,683	28,919	32,214	-	220,816
		Percent		72%	13%	15%	0%	100%
		Per Unit	20.0	\$638.73	\$115.68	\$128.86	\$0.00	\$883.26
	Labor Ra	te \$32.00						
Year 2004	4 Leak Repair Service	230	3,530.0	111,352	32,687	44,014	-	188,053
		Percent		59%	17%	23%	0%	100%
		Per Unit	15.3	\$484.14	\$142.12	\$191.37	\$0.00	\$817.62
	Labor Ra	te \$31.54						
	Total	1,789	20,821.0	750,653	191,379	209,658	(3,176)	1,148,514
		Percent		65%	17%	18%	0%	100%
		Per Unit	11.6	\$419.59	\$106.98	\$117.19	(\$1.78)	\$641.99

BROCKTON

Location	Description	Volumes	Hours	Labor	Purchases	Material	Other	Total
Year 1998	Leak Repair Service	237	2,294.0	84,374	17,136	23,218	_	124,728
	•	Percent	•	68%	14%	19%	0%	100%
		Per Unit	9.7	\$356.01	\$72.30	\$97.97	\$0.00	\$526.28
	Labor Rate	\$36.78						
Year 1999	Leak Repair Service	175	2,270.0	64,063	27,673	23,151	-	114,887
		Percent		56%	24%	20%	0%	100%
		Per Unit	13.0	\$366.07	\$158.13	\$132.29	\$0.00	\$656.50
	Labor Rate	\$28.22						
Year 2000	Leak Repair Service	144	2,175.0	62,085	16,977	19,709	-	98,771
		Percent		63%	17%	20%	0%	100%
		Per Unit	15.1	\$431.15	\$117.90	\$136.87	\$0.00	\$685.91
	Labor Rate	\$28.54						
Year 2001	Leak Repair Service	53	800.0	24,210	3,205	16,261	-	43,676
		Percent		55%	7%	37%	0%	100%
		Per Unit	15.1	\$456.79	\$60.47	\$306.81	\$0.00	\$824.08
	Labor Rate	\$30.26						
Year 2002	Leak Repair Service	113	423.0	14,078	(1,293)	25,015	-	37,800
		Percent		37%	-3%	66%	0%	100%
		Per Unit	3.7	\$124.58	(\$11.44)	\$221.37	\$0.00	\$334.51
	Labor Rate	\$33.28						
Year 2003	Leak Repair Service	147	2,834.0	100,570	18,137	27,769	-	146,476
		Percent		69%	12%	19%	0%	100%
		Per Unit	19.3	\$684.15	\$123.38	\$188.90	\$0.00	\$996.44
	Labor Rate	\$35.49						
Year 2004	Leak Repair Service	130	1,734.0	58,510	22,876	26,711	-	108,097
		Percent		54%	21%	25%	0%	100%
		Per Unit	13.3	\$450.08	\$175.97	\$205.47	\$0.00	\$831.52
	Labor Rate	\$33.74						

Total	999	12,530.0	407,890	104,711	161,834	-	674,435
	Percent		60%	16%	24%	0%	100%
	Per Unit	12.5	\$408.30	\$104.82	\$162.00	\$0.00	\$675.11

LAWRENCE

Location	Description	Volumes	Hours	Labor	Purchases	Material	Other	Total
Year 1998	8 Leak Repair Serv	rice 43	153.0	8,068	9,566	871	-	18,505
	-	Percent		44%	52%	5%	0%	100%
		Per Unit	3.6	\$187.63	\$222.47	\$20.26	\$0.00	\$430.35
	Labor	Rate \$52.73						
Year 1999	9 Leak Repair Serv	rice 17	143.0	3,701	1,415	1,865	-	6,981
	-	Percent		53%	20%	27%	0%	100%
		Per Unit	8.4	\$217.71	\$83.24	\$109.71	\$0.00	\$410.65
	Labor	Rate \$25.88						
Year 2000	0 Leak Repair Serv	rice 22	245.0	6,015	4,829	1,746	-	12,590
	-	Percent		48%	38%	14%	0%	100%
		Per Unit	11.1	\$273.41	\$219.50	\$79.36	\$0.00	\$572.27
	Labor	Rate \$24.55						
Year 200	1 Leak Repair Serv	rice 16	201.0	5,339	2,632	113	-	8,084
		Percent		66%	33%	1%	0%	100%
		Per Unit	12.6	\$333.69	\$164.50	\$7.06	\$0.00	\$505.25
	Labor	Rate \$26.56						
Year 200	2 Leak Repair Serv	rice 40	422.0	12,476	6,116	1,619	(1,180)	19,031
		Percent		66%	32%	9%	-6%	100%
		Per Unit	10.6	\$311.90	\$152.90	\$40.48	(\$29.50)	\$475.78
	Labor	Rate \$29.56						
Year 200	3 Leak Repair Serv	rice 22	249.0	7,474	1,967	655	-	10,096
		Percent		74%	19%	6%	0%	100%
		Per Unit	11.3	\$339.73	\$89.41	\$29.77	\$0.00	\$458.91
	Labor	Rate \$30.02						
Year 2004	4 Leak Repair Serv	rice 16	295.0	9,113	5,376	1,097	-	15,586
	-	Percent		58%	34%	7%	0%	100%
		Per Unit	18.4	\$569.56	\$336.00	\$68.56	\$0.00	\$974.13
	Labor	Rate \$30.89						
	Total	176	1,708.0	52,186	31,901	7,966	(1,180)	90,873
		Percent		57%	35%	9%	-1%	100%
		Per Unit	9.7	\$296.51	\$181.26	\$45.26	(\$6.70)	\$516.32

SPRINGFIELD

Location	Description	Volumes	Hours	Labor F	Purchases	Material	Other	Total
Year 1998	Leak Repair Service	89	(4,384.0)	36,077	7,428	2,070	-	45,575
		Percent		79%	16%	5%	0%	100%
		Per Unit	(49.3)	\$405.36	\$83.46	\$23.26	\$0.00	\$512.08
	Labor Rate	(\$8.23)						
Year 1999	Leak Repair Service	110	4,255.0	114,603	19,344	12,071	-	146,018
		Percent		78%	13%	8%	0%	100%
		Per Unit	38.7	\$1,041.85	\$175.85	\$109.74	\$0.00	\$1,327.44
	Labor Rate	\$26.93						
Year 2000	Leak Repair Service	81	1,428.0	(7,223)	1,758	79	-	(5,386)
		Percent		134%	-33%	-1%	0%	100%
		Per Unit	17.6	(\$89.17)	\$21.70	\$0.98	\$0.00	(\$66.49)
	Labor Rate	(\$5.06)						
Year 2001	Leak Repair Service	78	120.0	3,598	6,147	2,060	-	11,805
		Percent		30%	52%	17%	0%	100%
		Per Unit	1.5	\$46.13	\$78.81	\$26.41	\$0.00	\$151.35
	Labor Rate	e \$29.98						
Year 2002	Leak Repair Service	91	1,756.0	48,154	6,840	3,582	(1,996)	56,580
		Percent		85%	12%	6%	-4%	100%
		Per Unit	19.3	\$529.16	\$75.16	\$39.36	(\$21.93)	\$621.76
	Labor Rate	e \$27.42						
Year 2003	Leak Repair Service		1,907.0	51,639	8,815	3,790	-	64,244
		Percent		80%	14%	6%	0%	100%
		Per Unit	23.5	\$637.52	\$108.83	\$46.79	\$0.00	\$793.14
	Labor Rate	\$27.08						
Year 2004	Leak Repair Service	84	1,501.0	43,729	4,435	16,206	-	64,370
		Percent		68%	7%	25%	0%	100%
		Per Unit	17.9	\$520.58	\$52.80	\$192.93	\$0.00	\$766.31
	Labor Rate	e \$29.13						
	Total	614	6,583.0	290,577	54,767	39,858	(1,996)	383,206
		Percent		76%	14%	10%	-1%	100%
		Per Unit	10.7	\$473.25	\$89.20	\$64.92	(\$3.25)	\$624.11

BAY STATE MASSACHUSETTS

0102 LEAK REPAIR MAIN 1998 - 2004

Location Description	Volumes	Hours	Labor	Purchases	Material	Other	Total
Year 1998 Leak Repair Main	1163	8,230.0	560,243	285,423	81,381	-	927,047
·	Percent		60%	31%	9%	0%	100%
	Per Unit	7.1	\$481.72	\$245.42	\$69.98	\$0.00	\$797.12
Labor Rat	e \$68.07						
Year 1999 Leak Repair Main	1286	30,016.0	904,275	439,690	100,703	-	1,444,668
	Percent		63%	30%	7%	0%	100%
	Per Unit	23.3	\$703.17	\$341.91	\$78.31	\$0.00	\$1,123.38
Labor Rat	e \$30.13						
Year 2000 Leak Repair Main	1428	34,217.0	856,708	381,021	94,915	(1,703)	1,330,941
	Percent		64%	29%	7%	0%	100%
	Per Unit	24.0	\$599.94	\$266.82	\$66.47	(\$1.19)	\$932.03
Labor Rat	e \$25.04						
Year 2001 Leak Repair Main	1256	31,289.4	845,377	339,222	90,417	-	1,275,016
	Percent		66%	27%	7%	0%	100%
	Per Unit	24.9	\$673.07	\$270.08	\$71.99	\$0.00	\$1,015.14
Labor Rat	e \$27.02						
Year 2002 Leak Repair Main	1504	35,025.9	954,912	326,244	101,650	(33,971)	1,348,835
	Percent		71%	24%	8%	-3%	100%
	Per Unit	23.3	\$634.91	\$216.92	\$67.59	(\$22.59)	\$896.83
Labor Rat	e \$27.26						
Year 2003 Leak Repair Main	1855	39,180.1	1,230,017	494,118	126,658	(7,252)	1,843,541
	Percent		67%	27%	7%	0%	100%
	Per Unit	21.1	\$663.08	\$266.37	\$68.28	(\$3.91)	\$993.82
Labor Rat	e \$31.39						
Year 2004 Leak Repair Main	1756	39,433.2	1,271,118	572,854	165,892	(5,275)	2,004,589
	Percent		63%	29%	8%	0%	100%
	Per Unit	22.5	\$723.87	\$326.23	\$94.47	(\$3.00)	\$1,141.57
Labor Rat	e \$32.23						
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Total	10,248	217,391.6	6,622,650	2,838,572	761,616	(48,201)	10,174,637
	Percent		65%	28%	7%	0%	100%
	Per Unit	21.2	\$646.24	\$276.99	\$74.32	(\$4.70)	\$992.84

BROCKTON

0102 LEAK REPAIR MAIN 1998 - 2004

Location	Description	Volumes	Hours	Labor	Purchases	Material	Other	Total
Year 1998	Leak Repair Main	614	5,420.0	270,840	100,024	43,519	00/	414,383
		Percent		65%	24%	11%	0%	100%
		Per Unit	8.8	\$441.11	\$162.91	\$70.88	\$0.00	\$674.89
	Labor Rate	\$49.97						
Year 1999	Leak Repair Main	674	13,157.0	340,159	159,524	56,845		556,528
		Percent		61%	29%	10%	0%	100%
		Per Unit	19.5	\$504.69	\$236.68	\$84.34	\$0.00	\$825.71
	Labor Rate	\$25.85						
Year 2000	Leak Repair Main	846 Percent	16,382.0	480,805 64%	219,839 29%	57,255 8%	(1,703) 0%	756,196 100%
		Per Unit	19.4	\$568.33	\$259.86	\$67.68	(\$2.01)	\$893.85
	Labor Rate		19.4	φ500.55	Ψ259.00	φ07.08	(ψ2.01)	ψοσο.οσ
	Labor Nate	φ29.33						
Year 2001	Leak Repair Main	738	15,771.1	452,492	185,313	53,657	-	691,462
		Percent		65%	27%	8%	0%	100%
		Per Unit	21.4	\$613.13	\$251.10	\$72.71	\$0.00	\$936.94
	Labor Rate	\$28.69						
Year 2002	Leak Repair Main	797	19,309.5	509,137	136,440	30,168	(27,658)	648,087
	•	Percent		79%	21%	5%	-4%	100%
		Per Unit	24.2	\$638.82	\$171.19	\$37.85	(\$34.70)	\$813.16
	Labor Rate	\$26.37						
Year 2003	Leak Repair Main	1109	24,329.3	780,855	307,288	71,746	(7,575)	1,152,314
	_oun repair main	Percent	_ 1,0_010	68%	27%	6%	-1%	100%
		Per Unit	21.9	\$704.11	\$277.09	\$64.69	(\$6.83)	\$1,039.06
	Labor Rate		20	Ψ.σ	ΨΞσσ	ψοσσ	(\$0.00)	Ψ.,σσσ.σσ
Year 2004	Leak Repair Main	971	22,165.4	740,704	337,929	79,700	(588)	1,157,745
1 Gai 2004	Leak Nepali Malli	Percent	22,105.4	64%	29%	79,700 7%	0%	1,137,743
		Per Unit	22.8	\$762.83		\$82.08		
	Labor Rate		22.8	₽10∠.83	\$348.02	φό∠.∪ὄ	(\$0.61)	\$1,192.32

Total	5,749	116,534.3	3,574,992	1,446,357	392,890	(37,524)	5,376,715
	Percent		66%	27%	7%	-1%	100%
	Per Unit	20.3	\$621.85	\$251.58	\$68.34	(\$6.53)	\$935.24

LAWRENCE

0102 LEAK REPAIR MAIN 1998 - 2004

Location Description	Volumes	Hours	Labor	Purchases	Material	Other	Total
Year 1998 Leak Repair Main	251	2,525.0	98,487	137,334	5,232		241,053
	Percent		41%	57%	2%	0%	100%
	Per Unit	10.1	\$392.38	\$547.15	\$20.84	\$0.00	\$960.37
Labor Rat	te \$39.00						
Year 1999 Leak Repair Main	244	5,837.0	306,982	205,584	17,199		529,765
	Percent		58%	39%	3%	0%	100%
	Per Unit	23.9	\$1,258.12	\$842.56	\$70.49	\$0.00	\$2,171.17
Labor Rat	te \$52.59						
Year 2000 Leak Repair Main	222	6,657.0	161,313	105,193	21,083		287,589
	Percent		56%	37%	7%	0%	100%
	Per Unit	30.0	\$726.64	\$473.84	\$94.97	\$0.00	\$1,295.45
Labor Rat	te \$24.23						
Year 2001 Leak Repair Main	191	5,835.1	140,590	84,747	16,516	-	241,853
	Percent		58%	35%	7%	0%	100%
	Per Unit	30.6	\$736.07	\$443.70	\$86.47	\$0.00	\$1,266.25
Labor Rat	te \$24.09						
Year 2002 Leak Repair Main	348	6,951.9	195,951	149,215	44,316	(6,313)	383,169
	Percent		51%	39%	12%	-2%	100%
	Per Unit	20.0	\$563.08	\$428.78	\$127.34	(\$18.14)	\$1,101.06
Labor Rat	te \$28.19						
Year 2003 Leak Repair Main	390	5,472.9	157,286	120,438	25,652	323	303,699
	Percent		52%	40%	8%	0%	100%
	Per Unit	14.0	\$403.30	\$308.82	\$65.77	\$0.83	\$778.72
Labor Rat	te \$28.74						
Year 2004 Leak Repair Main	420	7,878.3	236,157	156,895	38,644	(1,760)	429,936
	Percent		55%	36%	9%	0%	100%
	Per Unit	18.8	\$562.28	\$373.56	\$92.01	(\$4.19)	\$1,023.66
Labor Rat	te \$29.98						
Total	2,066	41,157.2	1,296,766	959,406	168,642	(7,750)	2,417,064
	Percent		54%	40%	7%	0%	100%

Per Unit 19.9 \$627.67 \$464.38 \$81.63 (\$3.75) \$1,169.92

SPRINGFIELD

0102 LEAK REPAIR MAIN 1998 - 2004

Location	Description	Volumes	Hours	Labor F	Purchases	Material	Other	Total
Year 1998	Leak Repair Main	298	285.0	190,916	48,065	32,630		271,611
		Percent		70%	18%	12%	0%	100%
		Per Unit	1.0	\$640.66	\$161.29	\$109.50	\$0.00	\$911.45
	Labor Rate	\$669.88						
Year 1999	Leak Repair Main	368	11,022.0	257,134	74,582	26,659		358,375
		Percent		72%	21%	7%	0%	100%
		Per Unit	30.0	\$698.73	\$202.67	\$72.44	\$0.00	\$973.85
	Labor Rate	\$23.33						
Year 2000	Leak Repair Main	360	11,178.0	214,590	55,989	16,577		287,156
		Percent		75%	19%	6%	0%	100%
		Per Unit	31.1	\$596.08	\$155.53	\$46.05	\$0.00	\$797.66
	Labor Rate	\$19.20						
Year 2001	Leak Repair Main	327	9,683.2	252,295	69,162	20,244	-	341,701
		Percent		74%	20%	6%	0%	100%
		Per Unit	29.6	\$771.54	\$211.50	\$61.91	\$0.00	\$1,044.96
	Labor Rate	\$26.05						
Year 2002	Leak Repair Main	359	8,764.5	249,824	40,589	27,166	-	317,579
		Percent		79%	13%	9%	0%	100%
		Per Unit	24.4	\$695.89	\$113.06	\$75.67	\$0.00	\$884.62
	Labor Rate	\$28.50						
Year 2003	Leak Repair Main	356	9,377.9	291,876	66,392	29,260	-	387,528
		Percent		75%	17%	8%	0%	100%
		Per Unit	26.3	\$819.88	\$186.49	\$82.19	\$0.00	\$1,088.56
	Labor Rate	\$31.12						
Year 2004	Leak Repair Main	365	9,389.5	294,257	78,030	47,548	(2,927)	416,908
	-	Percent		71%	19%	11%	-1%	100%
		Per Unit	25.7	\$806.18	\$213.78	\$130.27	(\$8.02)	\$1,142.21
	Labor Rate	\$31.34						

Total	2,433	59,700.1	1,750,892	432,809	200,084	(2,927)	
	Percent		74%	18%	8%	0%	100%
	Per Unit	24.5	\$719.64	\$177.89	\$82.24	(\$1.20)	\$978.57

MASSACHUSETTS

MASSACHUSETTS CALENDAR YEARS 1992 TO 2004 HISTORY OF ACTUAL CAPITAL SPENDING

	Sept 1992	Sept 1993	Sept 1994	Sept 1995	Sept 1996	Sept 1997	Sept 1998	1999	2000	2001	2002	2003 Actival	2004
GROWTH	FYE Actual	F Y E. Actual	r ve Actual	r r c actual	r re Actual	rie actual	T I C Actual	Dringi	The state of the s				
New Mains Installed													
Units	336,777	317,934	299,272	340,506	239,119	268,427	236,039	183,258	164,610	168,113	140,347	119,082	134,812
Unit Cost	\$8.33	\$8.59	\$9.64	\$7.00	\$9.18	\$8.73	\$8.72	\$11.68	\$14.20	\$11.20	\$10.70	\$12.39	38.82
Dollars	7,805,807	7,71,582	7,883,500	7.384,900	2,194,988	2,343,330	124,760,2	2,140,309	707,000,707	1,003,600,1	1,202,470	0+0,0,0,1	7,100,000
New Residential Service	7 607	4 404	4 1111	1 821	3 543	3 651	3.264	2.836	2.798	2.092	1.940	1.867	2,108
Unit Cost	\$995.86	\$834.51	\$788.58	\$803.30	\$916.42	\$916.97	\$1,016.24	\$1,072.83	\$1,268.82	\$1,358.17	\$1,634.51	\$1,582.17	\$1,464.21
Dollars	4,587,941	3,675,190	3,241,853	3,069,399	3,246,890	3,347,851	3,316,994	3,042,550	3,550,153	2,841,300	3,170,952	2,953,919	3,086,552
New C&I Service	700	543	163	733	098	610	594	514	546	448	475	437	357
Unit Cost	76 609 18	\$1.502.46	\$1.817.60	\$1.051.92	\$1,780.43	\$1.480.64	\$1,716.75	\$2,001.02	\$2,040.85	\$2,289.81	\$2,359.69	\$2,036.99	\$2,377.68
Dollars	763,127	830,860	841,547	771,058	640,954	916,518	1,019,750	1,028,525	1,114,303	1,025,837	1,120,854	890,166	848,831
New Residential Meters		n c	1,4	2 201	1200	4 450	2 846	4 050	7 710	3 320	3 383	2 277	3 894
Units Unit Cost	5,199	2,545	\$57.79	\$57.70	\$62.25	\$80.74	\$52.78	\$60.52	\$68.50	\$65.31	\$59.52	\$70.42	\$84.85
Dollars	329,838	240,305	199,202	195,657	184,931	359,935	203,004	245,115	302,713	216.830	201,342	230,761	330,417
New C&I Meters	733	299	589	009	450	603	859	538	3998	305	291	296	233
Unit Cost	8375.09	\$473.10	\$532.15	\$516.56	\$652.19	\$516.06	\$674.16	\$735.86	\$1,118.32	\$1,283.64	\$1,131.86	\$1,367.34	\$1,756.80
Dollars	271,191	313,667	364,526	314,582	299,355	357,629	440,228	395,894	409,305	391,509	329,371	404,734	409,335
Special Projects	0	0	0	0	4,680	234,931	0	0	1,369,545	1,401,571	260,667	92,550	89,833
Total Growth	8,757,904	7,791,604	7,532,688	6,735,646	6,571,798	7,560,200	7,037,397	6,852,453	9,082,786	7,760,256	6,585,456	6,047,976	5,953,821
RENTALS													
New Resid CB	CECC	1 433	C.L.O	309	920	773	575	430	909	104	49	34	42
Unit Cost	2,272 42	1,432	216	\$616.34	\$441.55	\$790.18	\$941.60	\$838.57	\$947.80	\$1,195.25	\$1,578.61	\$1,266.56	\$777.48
Dollars	1,243,929	709,861	553,926	385,215	430,956	610,813	541,420	368,133	574,366	124,306	77,352	43,063	32,654
New C&I CB Traite	231	213	130	105	71	31	93	21	14	\$	7	0	0
Unit Cost	09 3639	\$1,429.04	\$2,256,65	\$3,124.77	\$1.510.66	\$1,864.65	\$2,509.51	\$1,496.05	\$3,680.86	\$6,928.00	\$28,692.00		
Dollars	217,048	304,386	313,674	328,101	107,257	57,804	233,385	31,417	51,532	34,640	57,384	8,993	8,328
New Water Heaters	3 678	2773	2 673	2,703	0	0	7	0	1,436	1,415	1,567	1,339	1,318
Unit Cost	\$272.64	\$299.49	\$314.46	\$312.88)		\$32.00		\$406.91	\$476.07	\$2,549.60	\$600.73	\$719.30
Dollars	<u>-</u>	830,489	840,545	845,727	0	(106)	224	26,244	584,328	673,633	3,995,221	804,380	948.033
Replacement Water Heater	1 795	1 986	1 918	1.677	0	0	0	5.541	2,214	2,214	2,124	2,007	2,072
Unit Cost	\$292.01	\$287.79	\$325.16	\$393.97				\$400.26	\$428.22	\$502.51	\$447.42	\$521.26	\$489.76
Dollars	324,134	3/1,333	023,033	000,094	530 313	648 843	000 377	2,643,638	2 158 296	1 945 147	5 080 274	1 902 612	2 003,802
Total Kentals	706,1907	7,410,231	0%1,150,2	4,442,101	C****	400,000		200000					

MASSACHUSETTS

MASSACHUSETTS CALENDAR YEARS 1992 TO 2004 HISTORY OF ACTUAL CAPITAL SPENDING

21 \$659.00 13,839 825 8792.12 653.499 **abe** 81,117.98 95 \$2,518.27 239,236 \$166.70 124,372 \$72.26 8,986,940 2,169 \$1,542.24 3,345,128 847 \$1,003.47 849,936 939 \$461.54 433,390 2,105 \$172.62 363,362 664 \$130.70 86,784 232 95.904 96 2004 Actual 165 \$130.87 21,594 1,678 \$1,278.03 2,144,528 54 \$2,161.37 116,714 696 \$868.57 604,522 702 \$323.33 226,978 171 \$1,198.82 204,999 551 \$684.93 377,399 6 \$459.83 2,759 13 \$643.85 ...8,370 2,228 \$135.21 301,246 231 \$55.24 12,760 79,966 \$50.95 (654)225 4,073,916 346,729 2003 Actual 1,740 \$1,202.77 2,092,812 60 \$2,028.08 121,685 511 \$380.90 194,639 321 \$773.50 248,293 1,778 \$206.40 366,984 239 \$23.89 5,709 353 \$143.25 50,566 17 \$114.12 1,940 9 \$557.44 5,017 73,327 \$44.13 ,235,660 938 \$527.67 494.959 266 430,216 (80.462)343,588 2002 Actual 84 \$2,143.92 180,089 \$6,368.86 109 \$1,278.61 139,369 36 \$393.42 14,163 103,179 \$39.24 4,048,907 1,948 \$1,342.80 2,615,776 481 \$779.58 374,976 706 \$572.37 404,090 450 \$638.17 287.176 27 \$285.04 7.696 476 \$39.33 18,722 374 \$68.59 25.653 322 299,855 2,071 \$112.81 233,621 2001 Actual 2,398 \$881.73 2,114,381 53 \$1,768.51 93,731 361 \$117.66 42,476 288 \$145.56 41,922 260 \$117.58 30,571 100,736 \$46.86 4,720,296 45,709 428 \$831.19 355,748 602 \$601.34 362.007 477 \$471.83 225,065 1,620 \$202.44 327,959 327 \$85.97 28,111 \$263.82 244,559 325 927 2000 Actual 1,723 \$1,122.15 1,933,466 78 \$1,953.14 152,345 1,606 \$99.16 159,246 105,223 \$58.23 6,127,510 45 \$477.58 21,491 738 \$613.44 452,716 326 \$888.08 289,515 2,604 \$111.68 290,807 584 \$553.61 323,310 1,042 \$391.22 407.653 403 \$184.50 74,352 1,733 \$223.24 386,874 350 \$76.87 26,906 938,185 1999 Actual 132,692 \$40.06 5,315,789 1,792 \$1,087.10 1,948,091 261 \$1,088.83 284,184 364 \$1,079.62 392,981 1,636 \$220.91 361,406 698 \$293.07 204,565 164 \$149.47 24,513 13,145 \$242.24 184,305 2,466 \$188.42 464,654 141 \$1,508.01 212,629 176 3,639.39 640,532 963 \$468.61 451,269 ,657 41 4,239,443 Sept 1998 FYE Actual \$3,639 531, 1,885 \$1,064.38 2,006,361 \$7,174 \$134.78 7,706,112 130 \$1,648.98 214,367 501 \$497.97 249,485 930 \$389.71 362,427 500 \$596.04 298,021 1,405 \$290.19 407,720 336 \$107.28 36,045 4,998 \$114.41 571,803 \$37.63 \$37.63 \$81,777 1,923 \$230.02 442,321 442 0 0 Sept 1997 FYE Actual 8,721,680 1,783 \$240.63 429,040 246 \$167.98 41,323 20,447 \$135.99 780,570 1,750 \$232.90 407,575 99,599 \$44.06 388,233 1,368 \$967.36 323,342 158 1,606.95 253,898 2,908 \$297.84 866,111 1,204 \$452.25 544.505 0 336 \$888.87 298,659 0 373 ,658,508 Sept 1996 FYE Actual S 40,610 \$71.22 892,173 107,190 \$37.78 4,050,082 137 \$1,591.30 218,008 2,071 \$174.65 361,703 1,746 \$118.56 206,999 1,300 \$949.83 ,234,779 1,545 \$342.10 528,548 624 \$699.09 436,231 \$142.68 42,234 0 0 155 \$888.22 137,674 372 .503,109 Sept 1995 FYE Actual 1,526 \$143.26 218,619 42 \$1,052.83 44,219 394 \$120.87 47,623 34,252 \$80.76 766,024 2,176 \$124.02 269,864 \$31.26 \$24,017 1,464 \$835.63 ,223,369 5,611 \$153.20 859,601 273 \$557.76 152,269 576 \$330.06 190,115 851 \$450.90 383,716 0 214 77,067 .379,197 Sept 1994 FYE Actual 47 \$2,810.70 132,103 1,367 \$150.99 206,399 333 \$95.90 31,934 1,356 \$136.83 185,535 \$31.49 \$31.49 303,939 1,533 \$632.68 969,899 7,251 \$96.53 699,961 243 \$503.68 122,394 1,171 \$335.76 393,177 998 \$517.05 516,020 0 34,407 \$73.81 539,432 324 0 2,963,300 Sept 1993 FYE Actual 374 \$103.72 38,791 1,805 \$175.25 316,324 1,890 \$542.27 1,024,889 60 \$1,529.65 91,779 9,487 \$129.42 ,227,851 1,078 \$297.41 320,603 223 \$273.09 60,900 \$433.10 1,584 \$163.25 258,586 27,563 \$86.77 391,553 396 106,495 \$29.90 183,764 ,005,254 991 FYE Actual Sept 1992 Dollars
Replacement Resid Serv
Units
Unit Cost
Dollars Replacement C&I Serv Units Misc- Meter Barriers Cathodic Protection Replacement Mains ocate Meter Fits Residential Metsear agrade Meter Fits REPLACEMENTS otal Meter Work Instrumentation Unit Cost Unit Cost Dollars Unit Cost Dollars Uprate Units Unit Cost Unit Cost Dollars yholing Units Unit Cost Unit Cost Unit Cost Unit Cost Joint Sealing Units Unit Cost Unit Cost Unit Cost C&I Metscan Dollars Dollars Dollars Dollars Dollars Dollars Dollars Dollars ie-Overs Units Units Units Units Units Units Units Units Units

MASSACHUSETTS

MASSACHUSETTS CALENDAR YEARS 1992 TO 2004 HISTORY OF ACTUAL CAPITAL SPENDING

	Sept	Sept	Sept	Sept	Sept	Sept	Sept	1000	3000	1000	2002	2003	2004
	1992 FYE Actual	FYE Actual	FYE Actual	FYE Actual	FYE Actual	FYE Actual	FYE Actual	Actual	Actual	Actual	Actual	Actual	Actual
1 Unit Cost	8110.89	\$84.25	\$111.62	\$103.77	\$122.93	80.08	\$3,993.45	\$97.90	\$118.85	\$121.64	\$99.27	\$120.04	\$167.59
Dollars	43.913	27,298	23,886	38,604	45,853	39,374	163,732	49,731	38,626	39,167	26,405	27,009	38,880
Special Projects	0	0	0	0	0	678,342	437,154	456,811	240,171	216,451	363,985	16,945	92,772
Total Replacements	6,382,902	6,164,791	7,701,192	6,643,926	7,720,601	10,172,475	10,378,019	10,214,548	8,440,293	8,350,583	7,041,564	7,792,356	15,421,895
ENGINEERING & FACILITIES	TIES				7 - 10 - 10 - 10 - 10 - 10 - 10 - 10 - 1								
Remlators	1 286.824	426.541	247,749	746,097	242,345	351,413	152,097	361,262	133,949	1,057,762	674,521	1,192,612	808,676
Plant Work	0	0	0	0	59,409	0	462,264	468,549	31,556	342,119	167,313	354,764	452,377
Transportation	536,683	848,207	933,796	1,096,417	825,361	304,506	30,686	73,373	20,682	11,650	1,020	0	0
Meter Purchases	426,222	815,351	816,957	1,131,712	1,501,298	1,710,858	1,656,525	1,041,509	705,510	786,346	717,502	354,421	926,070
Small Projects	0	76,582	277,673	95,226	457,711	561,503	150,841	210,000	50,094	108,018	35,843	1,620	0
Special Projects	17.790.466	2,959,417	2.481.094	2.475.189	1,635,105	3,405,971	1,454,409	12,786,561	139,912	0	0	(000,089)	0
Meter Shop	29,055	27,873	0	0.	0	0	33,620	274,927	49,442	11,227	1,797	0	3,029
Total Other Operations	19,069,250	5,153,971	4,757,269	5,544,641	4,721,229	6,334,251	3,940,442	15,216,181	1,131,145	2,317,122	1,597,996	1,223,417	2,190,152
TECHNOLOGY	2,878,980	2,260,753	3,709,360	4,811,457	3,379,630	2,753,633	3,328,024	22,830,014	4,415,338	777,776	956,232	457,568	281,238
GENERAL CAPITAL													
Office Equipment	1 204.011	89.768	55,738	301,058	141,335	38,856	132,345	176,235	42,898	19,687	17.871	12,085	41,970
Other Foundant	803,628	403,265	453.340	759,995	517,370	120,655	192,639	754,510	111,640	228,393	77,309	230,160	188,182
Small Projects	85,645	0	0	0	0	50,849	4,688	5,300	1,876	154,654	19,570	147,890	215,695
Total General Capital	1,093,284	473,033	800,008	1,061,053	658,705	210,360	329,672	936,045	156,414	402,734	114,750	390,135	445,847
Overheads	6,410,068	8,278,947	6,523,215	6,130,809	5,350,762	5,478,442	4,656,690	3,790,531	3,605,090	4,230,051	4,883,515	5,700,349	5,962,830
Indirects	2,639,323	2,824,127	3,967,645	3,923,317	3,499,984	4,286,322	4,280,068	4,251,277	4,276,172	4,262,303	3,482,840	3,759,829	4,169,069
Corporate Indirect Lab. Tr.		0	0	(90,750)	(73,900)	(46,962)	(67,868)	0	0	0	0	0	0
Total Overhead	9,049,391	11,103,074	10,490,860	9,963,376	8,776,846	9,717,802	8,868,890	8,041,808	7,881,262	8,492,354	8,366,355	9,460,178	10,131,899
Non-Utility Capital	94,583	175,563	435,108	(268,052)	(766,111)	(977,119)	(33,121)	0	0	0	0	0	0
Total LDC Capital	53,319,450	38,502,380	40.846,550	40,214,893	35,913,533	45,161,844	38,863,794	67,672,862	33,736,573	30,345,827	30,172,843	27,620,971	36,945,080
Overhead %	49.0%	63.9%	55.6%	56.5%	48.1%	36.3%	39.8%	42.1%	43.3%	47.7%	56.1%	60.1%	43.8%

BROCKTON

BROCKTON
CALENDAR YEARS 1992 TO 2004 HISTORY OF ACTUAL CAPITAL SPENDING

	1992	1993	1994	1995	1996	1997	1998 1998 EVE Actual	1999	2000	2001 Actual	2002 Actual	2003 Actual	2004 Actual
	FYE Actual	FYE Actual	r ve Actuar	r r r vetual	rie Actual	r i E Actuar	LIE ACIMA	Tennan .					
GROWTH													
New Mains Installed	000	020 701	000 301	007 100	025 521	050 071	150 212	130 061	850 601	115 775	29 563	702 77	104 460
Units	199,8/3	184,3/3	103,029	46.33	67.70	68.15	170,212	48 07	S14.15	\$10,000	82 78	\$10.36	\$7.25
Dollars	30.23	1,462,585	2,009,751	1,400,816	1,241,001	1,330,109	1,191,671	1,078,856	1,443,676	1,215,884	634,923	802,009	757,133
New Residential Service													
Units	2,742	2,738	2,500	2,460	2,182	2,325	2,128	1,714	1,606	1,268	1,081	1,078	1,302
Unit Cost	\$1,123.14	\$846.08	\$821.98	\$824.78	\$975.95	\$918.60	\$1,052.19	\$1,034.60	\$1,417.63	\$1,299.51	\$1,815.27	\$1,764.25	\$1,385.22
Dollars	3,079,660	2,316,559	2,054,951	2,028,968	2,129,515	2,135,742	2,239,064	1,773,304	2,276,716	1,647,785	1,962,309	1,901,859	1,803,561
New C&I Service	203	210	777	056	212	400	430	1208	333	284	270	328	258
Umits ITait Cost	\$1,600.54	015	212	\$1.805.43	\$2 500 68	\$1 288 98	\$1,464,44	\$1.586.87	\$1.892.05	\$1.992.69	\$2.281.02	\$1,760.13	\$1,785.87
Dollars	468,959	488,380	491,102	451.358	425,241	515,593	629,710	518,907	630,054	565,924	615,875	577,324	460,754
New Residential Meters				6			,	000	0 0 0	0,000	102.1	1 066	3700
Units	3,015	2,228	2,117	2,280	7,777	2,018	2,4/5	62,28	456.47	2,042	\$50.03	1,000	\$62.46
Dollars	245.592	131,882	93,501	86,117	93,270	121,505	118,362	127,853	128,307	120,184	89,597	109,224	140,221
New C&I Meters									C t	, co	0,1	102	a C
Units	501	378	390	338	324	440	391	308	1/8	183	100	581	62 007 63
Unit Cost	\$424.76	\$580.26	\$711.42	\$625.50	\$634.96	\$520.98	\$013.29	\$805.89	271 448	31,208.41	51,205.14	265 376	300 072
Dollars	212,805	755,737	CC+,1/7	211,420	203,720	557,677	671,657	770,077	1 100 201	5.472	(1 002)	0.5,552	
Special Projects								100	1,102,501	C2+,C	(1,902)	0 000 230 0	0 461 741
Total Growth	5,256.258	4,618,743	4,926,760	4,178,679	4,094,753	4,332,182	4,418,602	3,764,997	5,802,502	3,787,519	3,494,104	5,000,0	2,401,741
RENTALS													
New Resid CB		i i		.00	010	24.5	0,40	36.	272	ç	35	ø	×
Units	1,411	847	400	187	248	341	947	\$671	\$740.04	55 9985	\$1 148 89	\$4 490 88	\$3 183 88
Dollars	747,447	408,710	205,283	165,298	176,890	222,336	236,755	108,697	204,734	36,395	40,211	35,927	25,471
New C&I CB						,		T.		,	O	C	C
Units	151	168	93	68	20	10	900 900 109	1	D :	7 090 313		>	
Unit Cost Dollars	\$1,501.47	239,699	243,309	300,550	32,007.12	41,498	191,955	24,337	15,526	31,721	36,728	7,402	1,668
New Water Heaters		THE PROPERTY OF THE PROPERTY O										702	Ų
Units	1,809	1,464	1,240	1,361	0	0	:	0	583	540	612	500	155
Unit Cost	\$297.61	\$318.43	\$325.57	\$311.00		(022)		181	307.706	90.1000	296 086	786 785	265 609
Dollars	538,385	400,170	403,701	424,103	0	(0/c)		101	660,202	210,230	000,004	201,102	700,007
Replacement Water Heater	773	816	938	1.013	0	0		5.541	1,134	1,097	1,099	1,052	1,035
Trait Cost	62000 10	\$316 12	4345 12	8366 10	,			\$399.70	\$415.29	\$535.74	\$473.43	\$539.90	\$493.02
Dollars	216,315	257,956	323,725	370,860	0	24		2,214,748	470,936	587,706	520,301	567,970	510,275
Total Rentals	1.728.869	1,372,541	1,176,018	1,260,871	277,246	263,488	428,710	2,347,963	893,891	926,818	893,326	881,084	803,023

BROCKTON

BROCKTON CALENDAR YEARS 1992 TO 2004 HISTORY OF ACTUAL CAPITAL SPENDING

	Sept 1992 FYE Actual	Sept 1993 FYE Actual	Sept 1994 FYE Actual	Sept 1995 FYE Actual	Sept 1996 FYE Actual	Sept 1997 FYE Actual	Sept 1998 FYE Actual	1999 Actual	2000 Actual	2001 Actual	2002 Actual	2003 Actual	2004 Actual
METER WORK													
Upgrade Meter Fits Units Unit Cost Dollars	232 \$284.12 65,916	213 \$293.09 62,429	308 \$164.19 50,571	\$93.47 \$93.47 \$3,279	\$82.44 \$82.44 45,673	366 \$113.26 41,452	\$17 \$136.72 43,339	278 \$111.95 31,122	263 \$108.74 28,598	370 \$90.55 33,505	313 \$159.57 49,946	437 \$24.46 10,690	607 \$109.36 66,384
Instrumentation Units Unit Cost Dollars			:	0	0 :	0	386 \$29.88 11.534	216 \$65.66 14,183	136 \$71.91 9,780	\$41.42 8,780	120 \$31.28 3,753	176 \$13.11 2,307	258 \$65.88 16.997
Relocate Meter Fits Units Unit Cost Dollars	275 \$157.11 43,204	183 \$114.63 20,978	\$73.73 7,594	123 \$105.25 12,946	132 \$147.24 19,436	132 \$60.88 8,036	126 \$89.22 11,242	37 \$413.08 15,284	106 \$143.13 15,172	166 \$20.15 3,345	203 \$74.47 15,118	60 \$104.48 6,269	45 \$49.33 2,220
Residential Metscan Units Unit Cost Dollars	11,036 \$107.88 1,190.598	20,960 \$69.13 1,448,911	18,325 \$80.40 1,473,262	14,251 \$91.62 1,305,687	11,829 \$128.12 1,515,575	25,623 \$138.26 3,542,526	5,856 \$260.94 1,528.055	868 \$155.18 134,699	78 \$118.41 9,236	9 \$86.11 775	10 \$24.10 241	2 \$41.50 83	52
C&I Metscan Units Unit Cost Dollars Total Meter Work	372 \$387.71 144,228	\$139.11 \$115.043	1,497 \$93.86 140,515	1,195 \$107.42 \$107.42 \$128.371	1,138 \$118.00 134,288	2,528 \$129.46 327,273	1,055 \$178.21 188,009 1,782,179	414 \$120.80 50,011 245,299	77 \$247.97 19,094 81,880	28 \$306.36 8.578 54,983	5448.14 3,137 72,195	13 \$282.54 3.673	18 \$279.06 5,023
REPLACEMENTS													
Replacement Mains Units Unit Cost Dollars	68,589 \$35.15 2,410,612	52,334 \$39.63 2,073,858	72,891 \$37.80 2,754,935	59,265 \$45.28 2,683,391	67,271 \$45.72 3,075,601	65,723 \$41.00 2,694,612	73,744 \$35.70 2,632,579	47,045 \$77.63 3,652,026	67,449 \$40.66 2,742,690	38,256 \$46.35 1,773,198	38,381 \$39.48 1,515,436	40,369 \$46.24 1,866,842	85,733 \$68.07 5,835,594
Replacement Resid Serv Units Unit Cost Dollars	1,062 \$510.73 542,392	647 \$664.59 429,992	337 \$694.04 233,892	352 \$868.43 305,689	\$92 \$958.69 \$57,959	718 \$753.61 541.095	630 \$789.56 497,420	631 \$928.96 586,172	1,303 \$633.38 825,292	785 \$1,118.82 878,276	690 \$939.54 648,286	729 \$1,088.31 793,376	853 \$1,385.77 1,182,061
Replacement C&I Serv Units Unit Cost Dollars	20 \$983.80 19,676	29 \$2,097.97 60,841	\$2,230.75 35,692	32 \$1,639.31 \$2,458	56 \$1,300.05 72,803	49 \$1,514.24 74,198	23 \$1,148.08 26,406	\$2,412.80 24,128	53,982.73 43,810	17 \$1,385.94 23,561	6 \$2,991.00 17,946	8 \$1,461.25 11,690	\$3,433.29 24,033
Uprate Units Unit Cost Dollars	9,487 \$168.53 1,598,872	7,251 \$96.53 699,961	5,611 \$153.20 859,601	155 \$166.94 25,875	52,539	0 71	9,062	45 \$159.02 7,156	0 296	0 (114)	0 (1,769)	0 (654)	0
Joint Sealing Units Unit Cost Dollars	225 \$386.80 87,031	139 \$536.74 74,607	165 \$582.26 96,073	249 \$450.59 112,196	\$655.59 \$1,949	130 \$445.45 57,909	29,639	122 \$766.48 93,511	45 \$527.62 23,743	0 188,81	271 \$439.14 119,008	90 \$1,303.28 117,295	53 \$796.55 42,217
Keyholing Units Unit Cost Dollars		61		0	0	0 1,167	2,418	26 \$2,187.81 56,883	0	11,840	0 416	0	0 0
Cathodic Protection Units Unit Cost Dollars	989 \$486.83 481,472	993 \$496.05 492,577	849 \$451.33 383,181	624 \$696.18 434,414	323 \$879.64 284,124	232 \$694.39 161,099	288 \$532.69 153,415	219 \$720.12 157,707	\$1,097.33 163,502	104 \$947.04 98,492	0	0 182,112	158 \$3,149.24 497.580
Tie-Overs Units Unit Cost Dollars				0	0	0	116,161	8420.67 271,754	241 \$408.64 98,482	223 \$763.00 170,149	164 \$782.21 128,283	354 \$700.67 248,037	\$1,14.9981 506.006
Mise- Meter Barriers Units	258	209	151	293	284	336	15	211	236	257	186	183	2951

BROCKTON

BROCKTON CALENDAR YEARS 1992 TO 2004 HISTORY OF ACTUAL CAPITAL SPENDING

Unit Cost FYE Dollars Special Projects	1903	Sept	Sept	Sept	Sept 1996	Sept 1997	Sept 1998	1000	2000	2001	2002	2003	2004
1.	FYE Actual	FYE Actual	FYE Actual	FYE Actual	FYE Actual	FYE Actual	FYE Actual	Actual	Actual	Actual	Actual	Actual	Actual
	\$146.75	599.57	\$122.81	\$108.03	\$134.05	\$77.96	\$7,176.58	\$89.12	\$108.95	\$121.19	\$94.79	\$127.86	\$168.24
	37,862	20,810	18,545	31,654	38,071	26,196	107,649	18,805	25,713	31,145	17,631	23,398	26,246
						309,783	268,164	91,365	29,597	67.546	29,389	0	58,911
Total Replacements 5,1	5,177,917	3,852,725	4,381,919	3,645,677	4,163,046	3,866,130	3,918,664	4,959,507	3,953,125	3,072,974	2,609,994	3,242,096	8,173,505
ENGINEERING & FACILITIES			Management .								and the second second		
Regulators		150.961	8.857	437,444		41,020	14,587	11,042	47,046	715,615	72,229	559,482	381,392
Plant Work							165,249	209.760	6,700	27,341	47,299	59,311	283,689
uoi	386,899	353,492	500,887	570,365	245,004	5,441	±	10,570	20,682	5,520	1,020	0	0
Se	328,393	17,563	53,977	126,924	126,873	72,504	206,603	138,689	83,665	83,626	39,589	(47,852)	32,732
				8,686	26,296	36,383		28,791	6,711	0	28,607	1,620	0
S	274.008	178.970	581,405	1,139,689	263,251		6,741	35,833	0	0	0	(000,089)	0
								0	34,996	1,391	325	0	3,029
rations	989,300	700,986	1,145,126	2,283,108	661,424	155,348	393,180	434,685	199,800	833,493	690,681	(107,439)	700,842
TECHNOLOGY 2	26,509	38,709	18,699		24,029	34,891	146,215	358,609	18,193	0	0	0	0
GENERAL CAPITAL													
Office Equipment	10,239	1,146	16,687	85,871	42,524	1,200	5,120	37,882	12,884	70	12,489	8,493	31,651
	350,831	130,423	137,370	78,040	109,717	27,515	107,432	71,906	42,397	53,360	29,089	61,675	62,869
Small Projects								4,200	1.876	127,564	0	88,525	185,059
Total General Capital	361,070	131,569	154,057	163,911	152,241	28,715	112,552	113,988	57,157	180,994	41.578	158,693	284,579
Overheads 2.6	2.615.980	3,585,519	2,652,765	2,460,699	2,085,380	2,190,836	1.5777,611	1,631,100	1.743,807	1,596,028	2.028,044	2,468,697	2,702,193
Indirects Compare Indirect I ah Tr	1,561,100	1,530,188	1,799,241	1,749,586	1.546,894	1,791,923	1,729,260	1,624,550	1,684,534	1,789,026	1,250,311	1,213,463	1,439,625
	4,177,080	5,115,707	4,452,006	4,382,235	3,747,074	4,075,557	3,471,015	3,255,650	3,428,341	3,385,054	3,278,355	3,682,160	4,141,818
Non-Utility Capital	94,583	175,563	430,470	669,938	612,209	169,945							
Total LDC Capital 19,2	9,255,532	17,653,904	18,356,997	18,084,702	15,446,994	16,845,543	14,671,116	15,480,698	14,434,889	12,241,635	10,578,621	11,535,408	17,656,184

LAWRENCE

LAWRENCE CALENDAR YEARS 1992 TO 2004 HISTORY OF ACTUAL CAPITAL SPENDING

	Sept 1992 FVE Actual	Sept 1993 FVE Actual	Sept 1994 FYE Actual	Sept 1995 FYE Actual	Sept 1996 FYE Actual	Sept 1997 FYE Actual	Sept 1998 FYE Actual	1999 Actual	2000 Actual	2001 Actual	2002 Actual	2003 Actual	2004 Actual
						-							
GROWTH													
New Mains Installed				1			000	, 6,	.00	C C C	t	000	010
Units	22,134	23,219	23,978	23,206	12,180	35,232	23,582	\$34 62	19,231	18,0/2	\$23.28	\$19,039	\$,102
Dollars	170,550	193,969	243,453	223,866	499,521	367,200	343,743	499,745	291,827	215,734	413,185	210,767	128,301
New Residential Service											TOTAL THE PROPERTY OF THE PROP		
Units	452	390	408	381	364	355	313	304	324	236	211	213	197
Unit Cost	\$817.09	\$733.10	\$818.28	\$1,012.57	\$988.99	\$910.30	\$973.96	\$1,134.82	\$1,359.56	\$1,282.25	\$1,476.84	51.755,18	51,815.50
Dollars	369,325	285,908	333,859	385,791	359,992	323,156	304,848	344,984	440,490	302,610	311,014	789,201	527,014
New C&I Service	ç	000	33	000	33	ç	77	47	91	40	01	28	2.5
Units Unit Cost	53 140 87	67 256 63	\$2 404 44	62 010 53	\$1 705 45	\$2,320,81	\$3 118 22	\$3,370,23	\$2.412.62	\$3.228.08	\$2,480.82	\$3,102.82	\$5,037,44
Dollars	72,240	65,434	79,822	87,572	59,250	97,474	127,847	158,401	219,548	158,176	225,755	86,879	125,936
New Residential Meters									O T O	0.11	202	ų	100
Units	451	487	419	347	304	401	396	643	8/8	418	565	511	6777
Unit Cost	\$84.13	\$01.88	358.11	\$109.89	308.09	26.29	301.09	301.13	87.740	10 545	33 356	41.807	45 075
Dollars	37,943	30,134	74,349	38,131	70,030	70,101	77,473	27,310	61,77	7,71	000,00	11,007	77,047
New C&I Meters	75	93	96	150	75	65	75	62	31	29	32	30	24
Unit Cost	\$763.59	\$419.08	\$521.62	\$441.60	\$781.31	\$1,326.14	\$1,497.17	\$701.71	\$2,898.65	\$1,689.48	\$1,700.25	\$625.43	\$953.71
Dollars	57,269	38,974	49,554	66,240	58,598	86,199	112,288	43,506	89,858	48,995	54,408	18,763	22,889
Special Projects		4				234,931			267,244	541,489	18,126	0	89,833
Total Growth	707,327	614,419	731,037	801,600	650,866	1,135,141	913,155	1,085,954	1,396,222	1,286,549	1,056,444	647,417	769,598
RENTALS													
New Resid CB													
Units	199	146	182	70	11	88	66	94	102	19		∞ (∞ c
Unit Cost	\$442.61	\$397.52	\$232.37	\$730.37	\$4,912.18	\$983.76	\$608.51	\$729.40	\$975.88	\$1,393.37	\$4,182.00	\$1/0.13	345.88
Dollars	88,079	38,038	47,731	071,170	24,034	00,271	747,00	100,004	040,00	17,17	1,102	100,1	
New C&I CB	18	34	28	10	٦	0	19	13		0		0	0
Unit Cost	\$232.11	\$1,587.26	\$1,856.68	\$2,035.20	\$1,096.00		\$44.84	\$297.92	\$2,137.00		\$4,548.00		(
Dollars	4,178	53,967	51.987	20,352	1,096	6,733	3,004	3,873	2,137	402	4,548	118	359
New Water Heaters	\$18	303	409	475		0	C	0	228	197	232	172	147
Unit Cost	8261 59	\$246.48	\$318.39	\$332.28			:)	\$398.25	\$433.96	\$448.48	\$467.84	\$521.31
Dollars	135,506	908'96	130,220	141,217		27	147	163	90,802	85,490	104,047	80,469	76,633
Replacement Water Heater	000	CUC	000	103		C	C	C	283	992	259	251	230
Unit Cost	077	2070 07	89 5063	8321 46		>			\$471.74	\$456.08	\$467.51	\$494.52	\$526.68
Dollars	67,433	50,309	65,050	62,042		0	0	3,086	133,503	121,317	121,084	124,124	121,137
Total Rentals	295,196	259,180	289,548	274,737	55,130	93,331	63,393	75,686	325,982	233,683	233,861	206,072	198,196
													_

LAWRENCE

LAWRENCE CALENDAR YEARS 1992 TO 2004 HISTORY OF ACTUAL CAPITAL SPENDING

	Sept 1992 FVE Actual	Sept 1993 FYE Actual	Sept 1994 FYE Actual	Sept 1995 FYE Actual	Sept 1996 FYE Actual	Sept 1997 FYE Actual	Sept 1998 FYE Actual	1999 Actual	2000 Actual	2001 Actual	2002 Actual	2003 Actual	2004 Actual
METER WORK													
Upgrade Meter Fits Units Unit Cost Dollars	569 \$219.48 124.883	756 \$142.33 107.605	704 \$140.55 98,944	937 \$160.09 \$0.008	723 \$208.06 150,430	883 \$196.09 173,145	986 \$200.16 197,357	1,288 \$150.39 193,701	863 \$166.91 144,044	1,296 \$64.76 83,924	1,027 \$197.36 202,690	1,087 \$162.78 176,940	546 \$298.05 162,736
Instrumentation Units Unit Cost Dollars				0	0 . 0	0	127	\$15.71 1,194	22 \$18.55 408	21 \$6.71 141	\$249.50 998	15 \$172.93 2,594	16 \$1,894.38 30,310
Relocate Meter Fits Units Unit Cost Dollars	\$5 \$119.87 10,189	135 \$57.71 7,791	164 \$102.36 16,787	79 \$181.56 14,343	85 \$170.07 14,456	171 \$142.35 24,342	\$8,236.00 8,236	92 \$129.62 11,925	84 \$102.29 8,592	51 (\$6.69) (341)	60 \$164.42 9,865	\$110.20 \$110.20 1,102	93 \$99.17 9,223
Residential Metsean Units Unit Cost Dollars	4,254 \$69.40 295,243	6,018 \$62.33 375,112	4,116 \$69.69 286,849	4,404 \$83.44 367,452	3,036 \$153.97 467,439	8,353 \$124.57 1,040,518	3,214 \$151.21 486,000	1,115 \$67.47 75,231	152 \$158.38 24,074	0	\$ \$63.20 316	\$1,272.00	0 44
C&I Metscan Units Unit Cost Dollars Total Meter Work	204 \$158.90 32,415 462,730	104 \$233.89 24,325 514,833	168 \$252.14 42,359 444,939	124 \$258.63 32,070 563,873	157 \$166.38 26,122 658,447	273 \$222.16 60,649 1,298,654	151 \$203.81 30,775 722,368	65 \$160.49 10,432 292,483	0 4,173 181,291	0 4,779 94,096	\$550.00 550 550 214,419	0 4,619 186,527	\$8,701.00 8,701 211,014
REPLACEMENTS													
Replacement Mains Units Unit Cost Dollars	5,760 \$44.08 253,875	12,387 \$33.74 417,938	19,311 \$45.94 887,112	17.075 \$18.71 319,413	\$,213 \$105.97 \$52,406	34,468 \$54.98 1,895,187	26,916 \$50.55 1,360,489	11,495 \$85.23 979,730	12,703 \$62.85 798,387	13,725 \$37.51 514,776	12,776 \$47.01 600,565	9,864 \$71.55 705,784	21,684 \$56.93 1,234,381
Replacement Resid Serv Units Unit Cost Dollars	187 \$993.91 185,861	214 \$952.17 203,764	322 \$1,150.84 370,569	310 \$1,074.95 333.234	228 \$1,174.13 267.702	504 \$1,593.94 803,345	\$1,451.19 725,595	319 \$1,647.63 525,594	331 \$1,416.75 468,943	495 \$1,701.06 842,027	345 \$1,608.38 554,890	343 \$1,573.99 539,880	418 \$1,975.53 825,773
Replacement C&I Serv Units Unit Cost Dollars	17 \$2,185.82 37,159	11 \$4,799.00 52,789	10 (\$423.20) (4,232)	21 \$2,245.57 47,157	16 \$3,578.38 57,254	32 \$1,851.25 59,240	36 \$1,476.00 53,136	1 \$25,309.00 25,309	\$3,581.00 28,648	18 \$3,657.50 65,835	4 (\$4,136.00) (16,544)	15 \$2,765.60 41,484	20 \$3,534.40 70,688
Uprate Units Unit Cost Dollars	425			111,799	2,908 \$279.77 813,572	1,923 \$229.98 442,250	176 \$3,587.90 631,470	0 14,335	45,413	8,139	0 1,348	0	0
Joint Sealing Units Unit Cost Dollars	282 \$360.20 101,576	70 \$564.70 39,529	18 \$569.78 10,256	229 \$568.02 130,076	377 \$511.14 192,701	154 \$511.37 78,751	0 0	315 \$496.46 156,386	156 \$995.98 155,373	283 \$701.95 198,652	170 \$466.31 79,273	\$607.94 \$607.94 101,526	190 \$784.06 148.972
Keyholing Units Unit Cost Dollars		125 \$358.02 44,753	\$594.09 \$60,597	0	0	220 \$470.11 103,425	675 \$389.09 262,636	78 \$2,218.49 173,042	\$620.14 \$620.14 193,484	373 \$710.19 264,902	70 \$440.16 30,811	129 \$493.35 63,642	152 \$644.95 98.032
Cathodic Protection Units Unit Cost Dollars	1,041	\$5,871.25 23,485	1 \$249.00 249	1,664	6 \$411.00 2,466	3,782	5,251	3 \$8,047.33 24,142	0 1,789	0 27,023	0 100,459	23 \$40.04 921	313 \$245.18 76.740
Tie-Overs Units Unit Cost Dollars				0	0	0	0 0	138 \$439.30 60,624	66 \$670.52 44,254	61 \$675.90 41,230	65 \$751.20 48,828	5846.69 54,188	\$60,638 \$80,638
Misc- Meter Barriers Units	100	61	18	6	16	12	0	123	10	22	17	11	2 2 1

LAWRENCE

LAWRENCE
CALENDAR YEARS 1992 TO 2004 HISTORY OF ACTUAL CAPITAL SPENDING

P.P.		Sept	Sept	Sept	Sept	Sept	Sept	Sept 1008	1000	2000	1000	2002	2003	2004
National State		FYE Actual	FYE Actual	FYE Actual	FYE Actual		FYE Actual	FYE Actual	Actual	Actual	Actual	Actual	Actual	Actual
7.704 2.67 903 1,480 2,090 866 4,050 10,720 991 1,880 2,489 13.04 13	Unit Cost	\$77.04	\$43.07	\$50.17	\$164.44	\$130.63	\$72.17		\$87.15	\$99.10	\$84.55	\$146.41	\$59.82	\$76.61
National N	Dollars	7,704	2,627	903	1,480	2,090	998	4.050	10,720	166	1,860	2,489	658	1,379
National N	Special Projects						194,330	23,032	0	210,574	125,934	308,130	13,945	2,563
National Street	Total Replacements	587,641	784,885	1,325,454		1,888,191	3,581,176	3,264,766	1,969,882	1,947,856	2,090,378	1,710,249	1,522,028	2,544,691
s 2.215 59,743 84,898 59,318 15.226 111,720 144,022 270,550 73,222 20,337 179,870 29,009 1 s 2.215 59,743 84,898 59,318 155,949 69,048 95,488 20,783 30,281 50,787 2,300 73,183 20,378 17,279 31,46 31,48 115,39 31,46 31,46 31,46 31,46 31,46 31,48 116,39 31,28 31,46 31,46 <td>ENGINEERING & FACILIT</td> <td>TIES</td> <td></td> <td></td> <td>- Taranta</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	ENGINEERING & FACILIT	TIES			- Taranta									
s 35,044 84,808 59,318 155,949 69,052 45,395 26,700 1,458 0,412 3,146 s 30,879 (1,809) 8,314 29,793 30,281 50,488 95,488 25,389 25,783 24,093 13,248 113,248 115,248 115,279 13,248 115,299 6,589 13,248 13,248 13,248 115,299 13,248 13,248 115,299 13,248 13,248 115,299 13,248 13,248 13,248 13,248 115,299 13,248 13,248 13,248 10,207 13,248 10,209 13,249 13,248 10,209 13,249 13,248 10,209 13,244 10 1	Regulators		44,790	74,534	33,673	12,226	111,720	114,022	270.596	73,222	20,397	179,870	29,099	139,067
s 2.215 59.743 84.898 59.338 155.5940 50.488 2.300 5.183 0 113.248 115.5940 1	Plant Work		made the control of t					69,052	45,395	26,700	1,458	0	3,146	0
s 30,879 (1,800) 8,344 29,793 30,281 50,488 95,488 26,7857 24,093 13,248 115 7,279 ions 33,094 11,202 16,802 29,428 6,781 83,725 28,819 486 30,596 73,085 6,030 7,279 ions 33,094 117,016 336,737 383,432 483,039 245,933 309,741 689,121 204,5223 108,188 186,035 39,524 1 L 23,026 6,539 1,292 6,991 3,642 30,152 10,207 12,447 2,678 0 0 L 23,026 23,026 30,741 4,736 6,697 27,447 2,678 0 0 L 23,026 20,438 36,037 10,207 12,447 2,678 0 0 L 23,026 20,438 30,741 8,388 26,078 33,100 28,588 26,978 33,100 28,588 26,098	Transportation	2,215	59,743	84,898	59,318	155,949		2,390	5,183	0				
14,292 168,962 59,428 62,781 83,725 28,819 486 30,556 73,085 6,050 0 0 0 0 0 0 0 0 0	Meter Purchases	30,879	(1,809)	8,314	29,793	30,281	50,488	95,458	267,857	24,093	13,248	115	7,279	1,177
Fig. 10	Small Projects		14,292	168,962	59,428	62,781	83,725	28,819	486	30,596	73,085	6,050	0	0
1,000 1,00	Special Projects			29	201,220	221,802			99,604	139,912	0	0	0	0
Table Tabl	Meter Shop					-			0	0				
L 23,026 2.046 0 543 6,991 3,642 30,152 10,207 12,447 2,678 0 0 L 23,026 2.046 0 543 6,090 27,519 6,471 4,736 6,697 0 0 0 0 198,361 124,377 40,041 100,532 81,047 8,388 26,978 33,100 28,288 95,600 21,483 40,511 198,361 124,377 40,041 100,532 81,047 8,388 26,978 33,100 28,288 95,600 21,483 40,511 181 221,387 40,041 101,075 87,137 58,130 37,197 37,836 46,467 710,203 36,497 37,836 36,497	Total Other Operations	33,094	117,016	336,737	383,432	483,039	245,933	309,741	689,121	294,523	108,188	186,035	39,524	140,244
A1. 23,026 2,046 22,048 22,048 22,048 22,048 22,048 22,048 22,048 22,048 22,048 22,048 22,048 22,048 22,048 22,049 22,048 22,04	TECHNOLOGY		48,627	6,539	1,292	6,991	3,642	30,152	10,207	12,447	2,678	0	0	0 .
AL. 23,026 2,046 0 543 6,090 27,519 6,471 4,736 6,697 0						San Artificial Control of the Contro								
23,026 2,046 0 543 6,090 27,519 6,471 4,736 6,697 0	GENERAL CAPITAL													
ital 221,387 40,041 100,532 81,047 8,388 26,978 33,100 28,282 95,690 21,483 40,511 ital 221,387 126,423 40,041 101,075 87,137 22,223 37,48 0 0 27,090 0 25,986 221,387 126,423 40,041 101,075 87,137 87,137 37,836 34,955 120,730 21,483 66,497 8 382,925 427,131 711,632 561,825 584,500 676,305 534,130 769,300 463,432 442,673 711,924 874,791 8 1ab. Tr. 667,887 820,418 1,074,657 1,037,313 1,205,538 1,049,621 1,205,228 979,619 987,842 1,204,023 1,241,748 1,1 1 </td <td>Office Equipment</td> <td>23,026</td> <td>2,046</td> <td>0</td> <td>543</td> <td>060'9</td> <td>27,519</td> <td>6,471</td> <td>4,736</td> <td>6,697</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td>	Office Equipment	23,026	2,046	0	543	060'9	27,519	6,471	4,736	6,697	0	0	0	0
ital 22,223 3,748 0 27,000 0 25,986 ital 22,1387 126,423 40,041 101,075 87,137 58,130 37,187 37,836 34,955 122,780 21,483 66,497 126,423 40,041 101,075 87,137 58,130 37,187 37,836 34,955 122,780 21,483 66,497 128,925 427,131 711,632 561,852 584,590 676,305 534,130 769,300 463,432 442,673 711,924 874,791 Lab. Tr. 284,962 393,287 417,723 499,983 451,713 435,928 516,187 545,169 492,099 366,957 Lab. Tr. 667,887 820,418 1,074,637 1,037,313 1,205,538 1,049,621 1,205,228 979,619 987,842 1,204,023 1,241,748 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 <	Other Equipment	198,361	124,377	40,041	100,532	81,047	8,388	26,978	33,100	28,258	95,690	21,483	40,511	18,525
ital 221,387 126,423 40,041 101,075 87,137 58,130 37,197 37,836 34,955 122,780 21,483 66,497 ital 221,387 126,423 40,041 101,075 58,130 676,305 534,130 769,300 463,432 442,673 711,024 874,791 1.28,925 427,131 711,632 561,852 584,590 676,305 451,713 435,928 516,187 545,169 492,099 366,957 1.ab. Tr. 50,100 35,000 29,250 63,778 1,205,228 979,619 987,842 1,204,023 1,241,748 1 117,493 230,879 94,145 1,049,621 1,205,228 979,619 987,842 1,204,023 1,241,748 1 117,493 2,30,879 94,145 94,145 4,926,194 4,926,194 4,926,194 4,926,194 3,909,813 3,909,813 3,909,813 3,909,813 3,909,813 3,909,813 3,909,813 3,909,813 3,909,813 3,909,813	Small Projects						22,223	3,748	0	0	27,090	0	25,986	0
382,925 427,131 711,632 561,852 584,590 676,305 534,130 769,300 463,432 442,673 711,924 874,791 Lab. Tr. 284,962 393,287 411,513 462,705 417,723 499,983 451,713 435,928 516,187 545,169 492,099 366,957 Lab. Tr. 667,887 820,418 1,123,145 1,074,657 1,037,313 1,205,538 1,049,621 1,205,228 979,619 987,842 1,204,023 1,241,748 1 117,493 230,879 94,145 94,145 3,366,397 5,172,895 4,926,194 4,926,194 4,626,514 3,909,813 3,366,397	Total General Capital	221,387	126,423	40,041	101.075	87,137	58,130	37,197	37,836	34,955	122,780	21,483	66,497	18,525
Lab. Tr. 284,962 393,287 411,513 462,705 417,723 499,983 451,713 435,928 516,187 545,169 492,099 366,957 Lab. Tr. 667,887 820,418 1,123,145 1,074,657 1,037,313 1,205,538 1,049,621 1,205,228 979,619 987,842 1,204,023 1,241,748 1 117,493 230,879 94,145 94,145 4,926,194 4,626,514 3,909,813 3,909,813	Overheads	382.925	427,131	711,632	561,852	584,590	676,305	534,130	769,300	463,432	442,673	711,924	874,791	828,637
Lab. Tr. 667,887 820,418 1,123,145 1,037,313 1,205,538 1,049,621 1,205,228 979,619 987,842 1,204,023 1,241,748 1 1 117,493 230,879 94,145 83,003,393 5,366,397 5,172,895 4,926,194 4,626,514 3,909,813	Indirects	284,962	393,287	411,513	462,705	417,723	499,983	451,713	435,928	516,187	545,169	492,099	366,957	310,636
667,887 820,418 1,123,145 1,037,313 1,205,538 1,049,621 1,205,228 979,619 987,842 1,204,023 1,241,748 1 117,493 230,879 94,145	Corporate Indirect Lab. Tr.	į			50,100	35,000	29,250	63,778						
1 117,493 230,879 94,145	Total Overhead	788,799	820,418	1,123,145	1,074,657	1,037,313	1,205,538	1,049,621	1,205,228	919,619	987,842	1,204,023	1,241,748	1,139,273
2 975 262 3 285 801 4 297 440 4 262 982 5 445 186 7 715 690 6 390 393 5 366 397 5 172 895 4 926 194 4 626 514 3 900 813	Non-Utility Capital				117,493	230,879	94,145			:			:	
	[Total LDC Capital	2.975,262	3,285,801	4,297,440	4,262,982	5,445,186	7,715,690	6,390,393	5,366,397	5,172,895	4,926,194	4.626,514	3,909,813	5,021,541

SPRINGFIELD

SPRINGFIELD CALENDAR YEARS 1992 TO 2004 HISTORY OF ACTUAL CAPITAL SPENDING

	Sept 1992	Sept 1993	Sept 1994	36bt 1995	1996 1996	3cht 1997	1998	1999	2000	2001	2002	2003	2004
	FYE Actual	FYE Actual	Actual	Actual	Actual	Actual	Actual	Actual					
GROWTH													
New Mains Installed	022 811	110 242	390 00	065 50	50 171	720 09	54 145	48 563	43 321	34 316	43 033	31 027	21.181
Units Unit Cost	114.70	110,542	\$7.00	025,56	\$7.08	\$9.24	\$0.04	\$11.57	\$13.88	\$13.16	\$10.55	\$14.92	\$14.33
Dollars	1,434,235	1,075,028	632,356	760,268	454,466	646,027	522,007	561.768	601,264	451,591	454,162	463,070	303,419
New Residential Service									6			t	
Units	1,413	1,276	1,203	086	266	971	823	818	898	588	648	576	609
Unit Cost	\$919.51	\$840.69	853 043	\$668.00	5759.66	\$915.50	\$939.35	\$1,129.90	832,941	890.905	897.029	762,859	925,377
New C&T Service	007,777,1	7.7.1.0.1	2,000										***************************************
Units	158	214	159	454	115	177	123	140	122	115	114	81	74
Unit Cost	\$1,564.88	\$1,294.61	\$1,702.03	\$511.30	\$1,360.55	\$1,714.41	\$2,131.65	\$2,508.69	\$2,169.68	\$2,623.80	\$2,449.33	\$2,789.67	\$3,542.45
Dollars	247,251	277,046	270.623	232,128	156,463	303,451	262,193	351,217	264,701	301,737	279,774	506,577	202,141
New Residential Meters	1 733	030	110	747	770	1 430	770	1118	1 269	860	200	006	1.042
Units Hrit Cost	576 27	\$94.32	\$89.30	\$93.47	\$161.28	\$147.50	\$61.63	\$69.72	\$68.68	\$89.65	\$78.62	\$88.59	\$139.32
Dollars	132,180	78,289	81,352	71,409	70,963	212,249	60,213	77,944	87,157	77,101	78,389	79,730	145,171
New C&I Meters	17	001	000	10.	03	100	781	891	157	03	66	83	8
Units	14/	192	007	121	00 000	001	107	\$513.76	00 000	\$1 187 04	\$874.86	\$1 457 95	\$1.028.26
Unit Cost	20 907	55.356	37 517	36 922	35.031	42.197	88.145	86.311	97.999	110,395	81,661	120,595	86,374
Special Draigate					4 680				0	854,659	244,443	92,550	0
apecial riojects		0,000	1004 001	1 756 767	900 044	770 COO C	1 705 640	2 001 \$00	CYU 788 1	885 989 6	2 034 908	1 744 767	1 722 482
Total Growth	3,142,931	7,558,442	1,8/4,891	7,05,567,1	1,4/8,980	770,750,7	0+0,007,1	700,100,2	700,+00,1	2,000,000	2,004,000	1,01,177,101	10,44,104
RENTALS													
New Resid CB					1	77.0	000	0,000		Ç		0,1	70
Units	762	439	384	274	717	344	877	1/0	251	57 967 13	52 535 31	\$320 83	07
Unit Cost	\$666.08	\$555.79	306 352	\$010.03	300 032	301 906	51,072.03	190 872	270 092	61 437	32.959	5.775	6,816
View C'8 CD	000,100	011,014	400,000	100,100	100,000	2021,02							
Units	62	I	18	9	20	15	17	7	13	3		0	0
Unit Cost	\$163.53	\$974.55	\$1,021.00	\$1,199.83	\$290.25	\$638.20	\$2,260.35	\$458.14	\$2,605.31	\$839.00	\$16,108.00	į	
Dollars	10,139	10,720	18,378	7,199	5,805	9,573	38,426	3,207	33,869	2,517	16,108	1,4/3	0,001
New Water Heaters			Š	110			1	_	309	829	773	661	029
Units Unit Cost	1,351	910	1,024	5305 72			\$11.00	 >	\$465.33	\$467.77	\$456.02	\$489.48	\$493.12
Dollars	392,886	267,447	306,624	280,347		237	11	0	290,831	317,147	329,702	323,545	305,734
Replacement Water Heater	- Landaugen		1	t but I				C	202	951	786	702	202
Units	852	896	09/	4/1		> ;	0))	6/31 16	\$474.20	\$403.31	96 6058	\$475.06
Unit Cost Dollars	\$301.49	263,290	234,878	227,792		27	0	0	343,631	403,545	308,932	354,082	383,375
Total Rentals	1,167,449	784,570	866,232	684,129	205,837	311,743	282,926	194,079	938,423	784,646	687,701	684,875	702,526
													-

SPRINGFIELD

SPRINGFIELD
CALENDAR YEARS 1992 TO 2004 HISTORY OF ACTUAL CAPITAL SPENDING

	Sept 1992 FYE Actual	Sept 1993 FYE Actual	Sept 1994 FYE Actual	Sept 1995 FYE Actual	Sept 1996 FYE Actual	Sept 1997 FYE Actual	Sept 1998 FYE Actual	1999 Actual	2000 Actual	2001 Actual	2002 Actual	2003 Actual	2004 Actual
METER WORK													
Units Unit Cost	\$102.63	398 \$91.37	\$134.44	564 \$280.88 158.416	\$460.35	156	333 \$362.49	\$970.37	494 \$314.41 155 317	405 \$286.89 116.192	438 \$261.07 114 348	\$161.39	952 \$141.01 134.242
Dollars Instrumentation	80,361	50,505	09,104	136,410	252,937	193,123	100,710	102,201	110,001	242	211	010,011	474,451
Units Unit Cost Dollare			72 067	0 0	0 0) O	\$1,043.41	\$198.78	\$106.05	\$40.33	\$8.33	\$196.48	\$125.95
Relocate Meter Fits		7	100,11	2	900	2 22	72,001	726	171	157	06	\$6	508
Unit Cost	\$87.50	\$211.00	\$183.01	\$158.99	\$256.24	\$111.12	\$136.08	\$172.05	\$109.43	\$144.26 22.649	\$284.26	\$149.72	\$143.23
Residential Metscan	C22,1	7 420	11 011	21.055	164,7	23.007	200.0 200.0	109	85	18	C		
Unit Cost	\$75.42	\$75.83	\$74.67	\$47.77	\$142.88	\$134.63	\$287.18	\$130.24	\$148.48	\$73.78	\$691.50	\$468.00	0
Dollars C&l Metscan	925,019	303,328	6/0,100	1,046,090	055,121	3,123,000	1,170,600	1/0.00	710,0	077,1	COCYY	1011	
Units Unit Cost	1,229	425	\$170.23	427 \$109.04	455	2,197	1,260	1,127	183	\$100.75	\$1,330.00		\$57.50
Dollars	172,921	46,167	86,990	46,558	70,379	183,881	245,870	98,803	7,304	908	1,330	78	115
Total Meter Work	1,180,126	649,025	1,138,278	1,268.817	1,108,303	3,503,739	1,734,896	400,403	707,808	150,776	143,002	137,180	214,730
REPLACEMENTS													
Replacement Mains	32 146	40 189	62.097	30.850	27.115	56.120	32.032	46.683	20.584	51,198	22,170	29,733	16,955
Unit Cost	\$21.60	\$20.21	\$19.03	\$33.95	\$28.04	\$23.02	, ,	\$32.04	\$57.29	\$34.39	\$50.50	\$50.49	\$113.06
Dollars	694,247	812,143	1,181,970	1,047,278	/60,226	1,291,978	1,522,721	1,495,734	1,1/9.219	1,700,933	1,119,029	067,100,1	1,910,903
Replacement Resid Serv Units	641	672	805	829	558	699	799	773	764	899	705	909	868
Unit Cost Dollars	\$630.71	\$500.21	\$768.83	\$933.94	\$891.90 497,681	\$998.37	\$1,095.28	\$1,063.00 821,700	\$1,073.49	895.473	\$1,261.90	\$1,538.73	\$1,489.19
Replacement C&I Serv	A CONTRACTOR OF THE CONTRACTOR		,			04	Co	5	70	0,4	05	31	89
Units Unit Cost	\$1,739.09	\$2,639.00	\$797.44	\$1,409.44	\$1,440.01	\$1,651.61	\$1,623.01	\$1,535.94	\$625.68	\$1,850.88	\$2,405.66	\$2,049.68	\$2,125.22
Dollars	39,999	18,473	12,759	118,393	123,841	80,929	133,087	102,908	21,273	90,693	120,283	63,540	144,515
Uprate Units				0	0	0	0	0	0	7	0	0	0
Unit Cost Dollars	345		0	0	0	0	0	0	0	36,557	(80,041)	0.	95,747
Joint Sealing Units	571	34	06	1.067	702	217	261	147	227	198	497	439	604
Unit Cost	\$278.30	\$242.88	\$510.44	\$268.30	\$384.41	\$519.93	\$616.22	\$499.41	\$778.11	\$795.17	\$596.94	\$878.59	\$1,090.64
Keyholing	273	1 046	474		0	710	288	634	290	333	441	573	787
Unit Cost	\$267.93	\$333.03	\$273.24)		\$363.15	\$646.58	\$351.41	\$581.11	\$382.43	\$370.55	\$285.05	\$426.12
Dollars	59,749	348,345	129,518	0	0	257,835	186,215	222,791	168,523	127,348	163,412	163,336	335,358
Cathodic Protection Units	2	П	—		7	368	76	104	877	5	0	148	354
Unit Cost Dollars	\$14,557.50	(\$42.00)	\$286.00	153	\$1,724,14 12,069	\$496.79 133.140	234,315	\$1,035.25	\$101.89	52,770.80	107.761	21,966	19,577¢ 19, 50 ;
Tie-Overs Units				0	0	0	0	258	170	166	92	133	ıge ⁹ 1
Unit Cost Dollars				0	0	0	234,350	\$291.76	\$484.29	\$456.61	\$773.72 71,182	\$565.22 75,174	\$1,085 ,3 6
Misc- Meter Barriers									f	,	0.7	1.0	12 °
Units	38	54	45	0.2	73	94	76	174	79	43	63	31	98

SPRINGFIELD

SPRINGFIELD CALENDAR YEARS 1992 TO 2004 HISTORY OF ACTUAL CAPITAL SPENDING

_	Sent	Sent	Sent	Sent	Sept	Sept	Sept						
	1992	1993	1994	1995	1996	1997	8661	1999	2000	2001	2002	2003	2004
	FYE Actual	FYE Actual	FYE Actual	FYE Actual	FYE Actual	FYE Actual	FYE Actual	Actual	Actual	Actual	Actual	Actual	Actual
Unit Cost	\$153.08	\$71.50	\$98.62	\$78.14	577.97	\$130.98	\$2,001.27	\$116.13	\$150.91	\$143.30	\$60.26	\$95.26	\$194.05
Dollars	5,817	3,861	4,438	5,470	5,692	12,312	52,033	20.206	11,922	6,162	6,285	2,953	11,255
Special Projects						174,229	145,958	365,446	0	22,971	26,466	3,000	14,169
Total Replacements	1,392,468	1,527,181	1,993,819	2,053,426	1,669,364	2,725,169	3,194,589	3,285,159	2,539,312	3,187,231	2,721,321	3,028,232	4,686,570
ENGINEERING & FACILITIES	TES												
Regulators		230.790	164,358	214,719	230,119	197.034	23,488	79,624	13,681	321,750	422,422	604,031	288,217
Plant Work		The second secon					202,382	213,394	(1,844)	313,320	117,262	292,307	168,688
Transportation	130,705	445,167	235,210	461,484	424,408	32,315	9,396	216	0	6,130	0	0	0
Meter Purchases	66,930	799,597	754,666	974,995	1,344,144	1,587,866	1,354,464	634,963	584,028	689,472	867,779	394,994	892,161
Small Projects		4,880	27,104	27,009	200,026	186,049	73,242	20,311	57,662	34,933	1,186	0	0
Special Projects	17,642,206	1,800,611	774,949	190,756	7,740	372		151,124	0	0	0	0	0
Meter Shop	49,047	27,873					33,620	274,927	14,446	9,836	1.472	0	0
Total Other Operations	17,888,888	3,308,918	1,956,287	1,868,963	2,206,487	2,003,636	1,696,592	1,374,559	667,973	1,375,441	1,220,140	1,291,332	1,349,066
TECHNOLOGY	150,778	111,904	23,384	8,021	746	164,097	641,349	186,098	88,624	0	0	0	0
GENERAL CAPITAL													
Office Equipment	44,531	27,007	11,406	169,458	46,851		77,427	25,644	1,964	17,472	0	3,592	0
Other Equipment	253,971	132,842	275,929	577,902	282,580	80,799	43,242	645,146	40,625	79,343	26,737	127,974	96,728
Small Projects	98,461					14,833		1,100	0	0	0	0	13,377
Total General Capital	396,963	159,849	287,335	747,360	329,431	95,632	120,669	671,890	42,589	96,815	26,737	131,566	110,105
Overheads	3,315,772	3,286,065	2,802,339	2,257,241	1,481,640	2,098,672	2,135,045	1,631,231	1,393,707	1,498,830	2.060,167	2,356,861	2,432,000
Indirects	793,261	900,652	1,210,472	1,269,352	1,125,187	1,575,964	1,584,051	1,702,085	1,786,711	1,619,930	1,195,323	1,153,484	1,289,519
Corporate Indirect Lab. Tr.				129,200	86,300	70,990	154,522						
Total Overhead	4,109,033	4,186,717	4,012,811	3,655,793	2,693,127	3,745,626	3,873,618	3,333,316	3,180,418	3,118,760	3,255,490	3,510,345	3,721,519
Non-Utility Capital		:	4,638	27,517	137,111	(8,008)							
Total LDC Capital	29,428,636	13,286,606	12,157,675	12,069,393	9,829.392	14,634,421	13,250,279	11,447,006	9,549,269	11,400,057	10,089,899	10,528,297	12,507,004

COMMONWEALTH OF MASSACHUSETTS DEPARTMENT OF TELECOMMUNICATIONS AND ENERGY

RESPONSE OF BAY STATE GAS COMPANY TO THE FIRST SET OF INFORMATION REQUESTS FROM LOCAL UWUA 273 D. T. E. 05-27

Date: July 9, 2005

Responsible: Danny G. Cote, General Manager

UWUA-1-16 For the period January 1, 1998 to present, please list the location of each operations and maintenance facility that the company maintains (or maintained) in Massachusetts, including the number of employees (FTEs) at each such location and the functions they perform. To the extent the locations or staffing levels at any location have changed, please list all such changes. Also include a general description of the types of materials and supplies routinely stored and available on site at these maintenance facilities.

Response: See the attached UWUA-1-16 (a) for the following:

- Part 1: List of locations of each operation and maintenance facility in Massachusetts.
- Part 2: Number of current employees at each facility and the functions performed.
- Part 3: Staffing level changes see the Company's response to UWUA 1-1 (A). Staffing levels by O&M facility location are not available. The Company only tracks this information by division (e.g., Brockton, Lawrence and Springfield).
- Part 4: General description of types of materials and supplies stored on site.

Bay State Gas Company O&M Facility Locations Functions and Inventory

	Part 1		Part 2	Part 3	Part 4
Status	Location	Current # Employees	Functions Performed	Staffing Level Changes	Types of Materials and supplies routinely and available on site
Open	Brockton MA Op Ctr 995 Belmont Street Brockton MA	223	Billing, Service, Distribution, Engineering and construction, collections, facilities, fleet, communications, GIS, operational support services, logistics, meter reading, sales, scheduling, stores	See UWUA 1-1 (A)	Materials and supplies stored at the Brockton, Springfield and Lawrence Divisions include: Water heaters, boilers and furnaces. Gas Meters - all types, heating system and water heater repair parts, plastic and steel pipe fittings for maintenance and installation of gas
Open	Springfield MA-Op Ctr 2025 Rossevelt Ave Springfield MA	229	Revenue Recovery, Call Center, Service, Distribution, Engineering and construction, communications, facilities, field collections, fleet, GIS, meter reading, Meter Shop Metering, Sales, Scheduling Stores, Operational Support Service	See UWUA 1-1 (A)	distribution system, general supplies, ie, tape, rages, etc., tools and equipment safety materials. General facility maintenance material, i.e., paper towels, soap, etc.
Open	Lawrence MA-Op Ctr 55 Marston Street Lawrence MA	55	Service, Distribution, Engineering and Construction, Collections, GIS, Meter Reading, Metering, Regulatory, Scheduling, Stores	See UWUA 1-1 (A)	
Open	TauntonMA Ops-Mod 86 Short Street (Rear) Taunton, MA	6	Service and Distribution	Included in Brockton staffing levels	Same as above, however, Water Heaters, Boilers and Furnaces not housed at these locations.
Open	Hanover MA-Op Ctr 11 Hanover St Hanover, MA	7	Service and Distribution	Included in Brockton staffing levels	
Open	Wrentham MA-Mod 100 South Street Wrentham, MA	2	Service	Included in Brockton staffing levels	
Closed	Franklin MA Ruggles Street Franklin, MA	0	Service (relocated to Wrentham)	Included in Brockton staffing levels	
Open	Easton MA-LNG Plt 102 Eastman St Easton, MA Northampton MA-LP Plt	8	Operate and maintain the vaporization facility LPG - Operate and maintain the vaporization	Included in Brockton staffing levels	
Open	351 Earle Street Northampton, MA	9	facility Operations - Service, Distribution	Included in Springfield staffing levels	General tools and engine oils are stored at the following
	Brockton MA LPG Plt Meadow Ln 10 Oak Hill Way		Maintain electrical equipment, maintain all	Included in Brockton	facilities: Northampton, Brockton, Marshfield, West Springfield and Lawrence.
Open	Brockton MA Marshfield MA Enterprise Drive	4	equipment at facility,	staffing levels No employees assigned to	
Open	Marshfield MA West Springfield MA Union Street	0		this location No employees assigned to	
Open Open	West Springfield, MA Lawrence MA - LNG 55 Marston Street Lawrence MA	0	Operate and maintain the vaporization facility	this location Included in Lawrence staffing levels	
Open	Ludlow MA Ravenwood Drive Ludlow MA	11	LNG - Operate and maintain the vaporization LNG - Operate and maintain the vaporization and liquefaction facility, maintain electrical equipment, maintain all equipment at facility,		
Closed	Taunton MA 500 Myles Standish Blvd Taunton MA	0	Service and Distribution	Included in Brockton staffing levels	General tools, refrigerant and engine oils are stored at this facility.

COMMONWEALTH OF MASSACHUSETTS DEPARTMENT OF TELECOMMUNICATIONS AND ENERGY

RESPONSE OF BAY STATE GAS COMPANY TO THE FIRST SET OF INFORMATION REQUESTS FROM LOCAL UWUA 273 D. T. E. 05-27

Date: July 9, 2005

Responsible: Danny G. Cote, General Manager

- UWUA-1-17 (a) Please name and summarize the various types of reports, studies or analyses the company uses to develop its capital expenditure plans.
 - (b) Please provide a copy of each such capital expenditure report, study, analysis or plan for the period January 1, 1998 to present.

Response:

- (a) Bay State Gas generally develops its capital expenditure plan for the upcoming fiscal year based on the historical spending levels from previous years. The capital spending activities are tracked and the latest available information in the current year plus any significant expected changes in the next or future years are used. For example, additional Steel Infrastructure Replacement Program dollars spent in Massachusetts for 2004 and future expected Steel Infrastructure Replacement Program dollars were used to develop the fiscal year 2005 capital expenditure plan. The name of the report that tracks historical spending levels is referred to as the "Capital spending detail by activity".
- (b) See Attachment UWUA-1-13 for Bay State's historic capital spending detail by activity between 1998 and 2004.

COMMONWEALTH OF MASSACHUSETTS DEPARTMENT OF TELECOMMUNICATIONS AND ENERGY

RESPONSE OF BAY STATE GAS COMPANY TO THE FIRST SET OF INFORMATION REQUESTS FROM LOCAL UWUA 273 D. T. E. 05-27

Date: July 9, 2005

Responsible: Danny G. Cote, General Manager

- UWUA-1-20 (a) Are there Bay State employees whose task, in whole or in part, is to supervise control of corrosion on the company's lines and mains? If yes, please provide a written copy of the job description.
 - (b) For each year 1998 to present, please list the staffing level for the corrosion supervision function. To the extent the level has changed, please provide all internal written communications regarding any decision to increase or decrease the number of people performing this function.

Response: (a) Yes. See Attachment UWUA-1-20 (a).

(b) Listed below is the Corrosion staff for years 1998 – 2005. Some of the names remain the same but the title might have changed. No internal written communications, regarding any decision to increase or decrease the number of people performing this function, was found.

Lawrence	
1998 – 2000)

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Harry Bickford - Corrosion Supervisor

Robert Rosenstrator - Corrosion Technician

2001	- 2003	
2004	- 2005	

Robert Allen – Corrosion Specialist

Springfield

1998 **–** 2000

Kenneth Santucci - Corrosion Supervisor

Robert Allen – Corrosion/Leak Specialist

Gary Steglinski – Corrosion Supervisor

2001 – 2005

Kenneth Santucci - Corrosion/Leak Specialist

Brockton

1998 – 1999

Marty Langelier - Corrosion Supervisor

Joan Furtado - Corrosion Analyst

2000

Joan Furtado – Corrosion Administrator

2001 – 2003 Joan Furtado – Corrosion Specialist

2004 – 2005 – Joan Furtado – Corrosion/Leak Specialist

Bay State Gas Company D.T.E. 05-27 Attachment UWUA-01-20(a) Page 1 of 1

Title: Corrosion and Leak Detection Specialist Job Code: Salary Type: Safety Sensitive: Location:

PRINCIPAL OBJECTIVE: Direct the Corrosion Control and Leak Survey programs efficiently and effectively in order to help maintain D.O.T. compliance and satisfy O & M requirements.

ESSENTIAL FUNCTIONS:

Process/Sub-Process:

- Supervise and/or guide others, responsible for a variety of tasks such as analyzing, advanced troubleshooting, testing, maintaining, installing, repairing, monitoring, preventive maintenance and inspection of the pipeline system to include all functions of cathodic protection and leak surveys.
- Responsible for maintaining all Corrosion Control and Leak Detection records per company requirements.
- Direct and supervise Corrosion Control and Leakage Detection consultants and/or internal company personnel.
- Acts as liaison between company and Federal and State inspectors.
- Provides corrosion and leakage training, guidance and support for the Operations personnel.
- Provide cathodic protection design and field installation and inspection services.
- Applies corrosion control and pipeline integrity methods and technologies.
- Utilize knowledge of measurement, electrical/electronic, and mechanical activities as they relate to maintenance of pipeline corrosion and leak detection.
- Forecast and monitor O & M and capital budgets.
- Direct and provide technical support for construction activities; provide corrosion analysis and recommendations on appropriate materials for projects.
- Provide consultation on coating and material specs for construction projects and assists with coating and material issues during construction.
- Collaborate with operations to identify projects and issues, and recommend solutions.
- Facilitate decisions on pipeline replacement projects as a result of corrosion and leakage.
- Acts as liaison between engineering staff and operations personnel.

Qualifications:

- Preferred 5 or more years experience in cathodic protection, protective coatings and leak detection
- OQ qualified in Corrosion and Leakage tasks
- Self-motivated with excellent communication skills, both written and verbal.
- ♦ NACE certified Specialist, Technologist or Level II Cathodic Protection Technician preferred.
- ♦ Able to handle multiple projects, set priorities, track progress and meet deadlines
- Ability to manage multiple vendor relationships
- Working knowledge of computer applications
- Excellent interpersonal skills

Cienature	
Signature	Date

COMMONWEALTH OF MASSACHUSETTS DEPARTMENT OF TELECOMMUNICATIONS AND ENERGY

RESPONSE OF BAY STATE GAS COMPANY TO THE THIRD SET OF INFORMATION REQUESTS FROM UWUA LOCAL 273 D. T. E. 05-27

Date: July 9, 2005

Responsible: Danny G. Cote, General Manager

UWUA-3-48 (Cote, pp. 19-20) Please provide any documents in the nature of work plans, schedules, budgets and related documents regarding the expected efforts to replace old mains in the Brockton division, including projections of Bay State in-house staffing (by job category) required to bid, oversee

and implement the work, including all service tie-ins.

Response: Please see Table UWUA-3-48 for a list of all Steel Infrastructure

Replacement Program related projects planned in the Brockton division

for 2005.

Table UWUA-3-48 2005 BROCKTON STEEL INFRASTRUCTURE REPLACEMENT PROGRAM WORK PLAN

Street Name	City/Town	New Length (Feet)	Retired Length (Feet)	Total # Of Services
Attleboro Springs	Attleboro	720	720	2
Bayberry hill Rd	Attleboro	267	267	1
Choate St	Attleboro	240	240	2
Fisher Ave	Attleboro	665	665	12
Laurier Ave	Attleboro	175	215	2
Locust St	Attleboro	5548	5548	23
Oak Hill Ave	Attleboro	6870	6870	34
Park Street	Attleboro	7755	7755	27
Park Street at Choate St	Attleboro	270	270	2
Prospect Ave.	Attleboro	360	360	3
Raeburn Dr	Attleboro	907	907	1
Rex Ave	Attleboro	175	170	1
Robinson Ave	Attleboro	1200	1138	16
Robinson Ave	Attleboro	2485	2485	24
Starr Lane	Attleboro	700	700	2
Thornton St.	Attleboro	325	325	2
Tyler St.	Attleboro	1223	1223	10

Woodland Lane	Attleboro	400	400	2
West Main St	Avon	360	360	0
Bates St	Brockton	700	700	13
Colonial Terrace	Brockton	200	220	4
Ellis St.	Brockton	280	280	4
Fenway Cir.	Brockton	240	240	6
Forest Rd.	Brockton	815	750	9
Foster St.	Brockton	50	0	0
Golden Circle	Brockton	700	700	8
Irving Street	Brockton	400	400	2
Joslyn Lane	Brockton	160	330	1
Libby St.	Brockton	800	820	7
Loucraft Ave	Brockton	350	340	4
Marion Street	Brockton	450	450	6
Oakland Pl.	Brockton	250	205	2
Pennsylvania	Brockton	325	325	4
Pleasant St.	Brockton	1260	1260	18
Quincy Ave	Brockton	320	0	0
Roan Ct.	Brockton	300	205	4
Sheridan St.	Brockton	750	945	10
Sterling Rd.	Brockton	1000	945	14
Summer St.	Brockton	2500	2500	3
Walnut Ave.	Brockton	320	275	6
Whitman St.	Brockton	130	320	1
Josephine St	Canton	150	150	2
Savin Hill	Canton	380	380	3
Tolman St	Canton	300	300	4
Washington Street	Canton	930	930	9
Washington Street	Canton	680	680	4
Abram's Hill Rd.	Duxbury	2310	2310	19
Alden St	Duxbury	1320	1320	8
Aviary Street	Duxbury	240	240	2
Bay Road	Duxbury	700	700	3
Bumble Bee Lane	Duxbury	756	756	3
Cedar St.	Duxbury	1080	1080	13
Chapel St.	Duxbury	600	600	6
Cove St.	Duxbury	990	990	12
Fairway Ln.	Duxbury	857	857	3
Forthill Lane	Duxbury	505	505	6
Freeman Place	Duxbury	510	510	5
Freindship Lane	Duxbury	534	534	4
Harrison St.	Duxbury	1705	1705	11
Huckleberry Lane	Duxbury	390	390	2
Josseyln Avenue	Duxbury	882	882	13
Linden Lane	Duxbury	756	756	10
Longpoint	Duxbury	624	624	3
Loring St.	Duxbury	1009	1009	4
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Lovers Lane.	Duxbury	345	345	4
Lund Lane	Duxbury	510	510	3
Old Cove Rd.	Duxbury	1080	1080	7
Partridge Road	Duxbury	804	804	5
Pine Hill Ave	Duxbury	600	600	4
Plumfield Lane	Duxbury	600	600	3
Private Way off	,			
Tremont	Duxbury	300	300	1
Private way off				
Washington (#397)	Duxbury	380	380	6
River Lane	Duxbury	576	576	3
Shipyard Lane	Duxbury	852	852	13
Short Lane	Duxbury	330	330	3
St George St	Duxbury	5575	5575	37
Sunset Road	Duxbury	1005	1005	9
Surplus St.	Duxbury	2760	2760	25
Tremont St	Duxbury	240	240	1
Tremont St	Duxbury	5200	5200	30
Tremont St	Duxbury	7690	7690	40
Wadsworth Lane	Duxbury	642	642	6
Washington Street	Duxbury	10020	10020	106
Water St.	Duxbury	385	385	7
Winsor Street	Duxbury	490	490	9
Woodridge Road	Duxbury	1782	1782	15
Depot St.	Easton	2365	1935	17
Bassett St.	Foxboro	650	650	5
Bradford Ave	Foxboro	435	435	9
		745	745	4
Carpenter St.	Foxboro			7
Central St.	Foxboro	800	800	4
Central St.	Foxboro	1280	1280	
Cross St.	Foxboro	223	200	1
Fales St.	Foxboro	150	150	3
Granite St.	Foxboro	4875	4875	36
Gray Rd	Foxboro	180	180	2
Liberty Street	Foxboro	195	195	2
North St.	Foxboro	4300	4140	8
Park Ave.	Foxboro	235	235	1
Payson Rd.	Foxboro	1090	1090	1
Pond Ave	Foxboro	400	400	3
Walnut St	Foxboro	1260	1260	2
A Street	Franklin	510	510	3
Alpine Place	Franklin	780	780	19
Beaver St.	Franklin	720	720	3
Beaver St.	Franklin	530	530	5
Charlotte Ct.	Franklin	220	220	7
Chestnut St.	Franklin	3440	3440	26
Corbin St.	Franklin	690	690	9
Dale St	Franklin	930	930	15

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Dean Ave.	Franklin	1225	1225	19
Dean Ave. Ext	Franklin	240	240	4
East Central St.	Franklin	2650	2650	15
East St.	Franklin	680	600	4
Fales St.	Franklin	825	825	6
Hillside Rd.	Franklin	420	420	5
James St.	Franklin	246	246	2
Main St.	Franklin	1254	1254	3
Martin Ave.	Franklin	300	300	2
Orchard St.	Franklin	480	480	6
Park Rd.	Franklin	140	140	2
Park Rd.	Franklin	225	225	2
Pleasant St.	Franklin	1740	1740	23
Reid Ave	Franklin	270	270	2
Ruggles St.	Franklin	728	728	12
Stubb Ave	Franklin	405	405	2
Summer St.	Franklin	1728	1728	22
Spring St	Hanover	4050	4050	25
Big Rock Lane	Hanson	580	275	3
High St.	Hanson	4365	4365	24
Morini Street	Mansfield	215	215	2
Willow Street	Mansfield	252	252	4
Landing Road	Marshfield	18	11	0
Awl St.	Medway	30	30	0
Brigham St.	Medway	970	970	5
Broad St.	Medway	180	180	1
Cottage St	Medway	474	474	4
Country Lane	Medway	200	180	1
Cutler St	Medway	492	492	2
High St.	Medway	1620	1620	13
Highland St.	Medway	860	860	10
John St.	Medway	370	370	7
Main St.	Medway	4365	4440	34
Mann St.	Medway	30	30	0
Phillips St.	Medway	628	628	7
Roche Estates	Medway	30	30	0
Sanford St.	Medway	540	540	1
Village St.	Medway	30	30	0
Wellington St.	Medway	1300	1300	8
Wellington St.	Medway	30	30	0
West St.	Medway	875	0	0
South Wocester St	Norton	6040	6040	37
West Main St	Norton	3005	3005	13
West Main St	Norton	5395	5395	43
Howard St	Randolph	930	930	15
North St.	Randolph	1860	1860	13
Plain St	Randolph	780	780	11

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Booth Hill Rd	Scituate	1750	1750	13
Booth Hill Rd	Scituate	150	150	0
Brown Ave.	Scituate	240	240	4
Conroy Terr.	Scituate	370	300	3
Country Way	Scituate	3078	3078	15
Country Way	Scituate	5952	5952	38
Country Way	Scituate	3000	2900	22
Country Way	Scituate	760	760	8
Curtis Street	Scituate	705	705	6
Edward Foster	Contacto	700	700	Ü
Road	Scituate	2245	2245	18
Edward Foster				
Road	Scituate	1200	1200	2
Egypt Ave	Scituate	300	300	9
Egypt Beach Rd.	Scituate	1300	1300	8
First Parish Road	Scituate	2460	2460	11
Gridley Bryant Rd.	Scituate	30	30	0
Grove Street	Scituate	2720	2724	5
Lincoln Park	Scituate	30	30	0
Lynda Lane	Scituate	550	560	2
Mann Hill Rd.	Scituate	1110	1110	2
Private Way	Scituate	30	30	0
Rocky Hill Circle	Scituate	195	192	1
Studley Royal St.	Scituate	435	435	5
Thomas Clapp Rd.	Scituate	2160	2160	10
Utility Rd.	Scituate	600	600	3
Ipswich St.	Seekonk	825	825	11
Bayberry Dr.	Sharon	30	30	0
Billings St	Sharon	260	260	4
Chive Dr.		30	30	0
	Sharon			3
East Foxboro Street	Sharon	1256	1265	
Gabriel Rd	Sharon	30	30	0
Harold St.	Sharon	1935	1935	27
Maskwonicut Street	Sharon	770	770	2
Meadow Rd.	Sharon	150	150	2
N. Main St.	Sharon	5200	5200	34
Nasir Ahmad Rd.	Sharon	30	30	0
Stone St	Sharon	100	100	3
Holebrook Ave	Stoughton	275	270	2
Lipsky Way	Stoughton	260	260	2
Pearl St	Stoughton	1808	1808	28
Water St.	Stoughton	448	303	4
Beacon St.	Taunton	1180	1180	8
Clay St	Taunton	280	370	2
Harvard St.	Taunton	460	490	5
Meadow Place	Taunton	165	165	2
Middleboro Ave	Taunton	1980	1980	9
Parker Terr.	Taunton	300	330	5

Plain St	Taunton	1415	1415	26
Seventh St	Taunton	370	370	3
Somerset Ave	Taunton	2880	2880	25
Winthrop St.	Taunton	3875	3875	13
Riverside Place	Walpole	830	830	17
Ash St	West Bridgewater	580	600	2
Bryant St	West Bridgewater	210	210	2
South Main St.	West Bridgewater	1199	1199	7
South Main St.	West Bridgewater	910	910	1
W Center St	West Bridgewater	1000	1000	5
Winter St	Wrentham	1180	1180	8

Future work plans, schedules and budgets to replace unprotected steel mains are determined by leakage history and municipal street reconstruction.

Typically the detailed main replacement plans related to the SIR program for each year are developed during the preceding late fall and winter months.

Based on the 2005 work plan, on average the following company personnel are assigned to the Steel Infrastructure Replacement Program:

- 10 Inspectors
- 5 Pipe Fitters
- 3 Welders
- 2 Tie-In Crew Leaders
- 5 Distribution Operators
- 2 Construction Supervisors
- 1 Resource Planner
- 2 Administrative Clerks
- 4 Engineers
- 1 Mapping Technician

Staffing levels for the future years of the program will be determined after the Company reviews the 2005 actual experience.